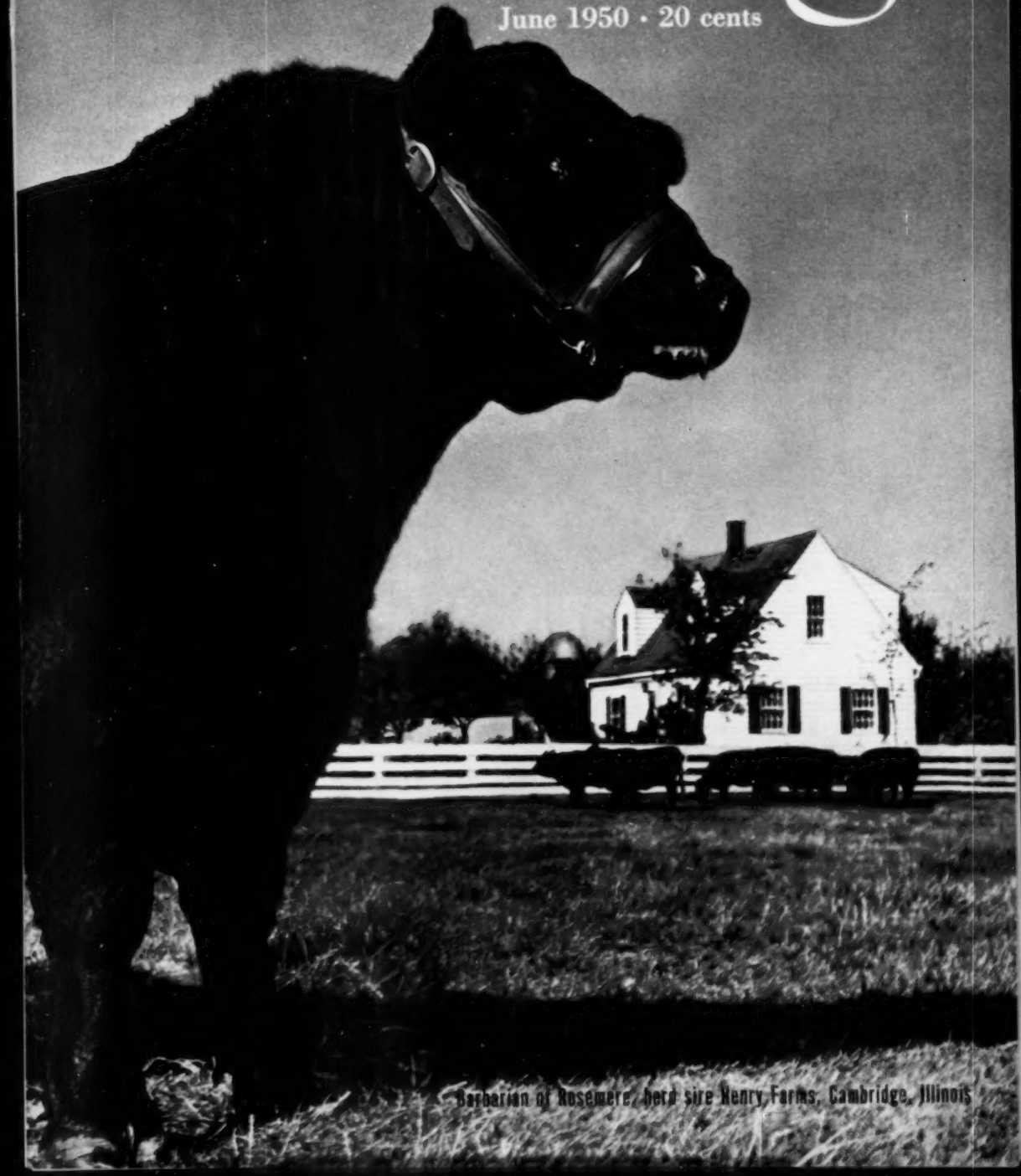
Successful Farming

June 1950 · 20 cents



Barbarian of Rosemere, herd sire Henry Farms, Cambridge, Illinois

The HARVESTORS

WITH THE FEATURES ALL FARMERS INSIST ON

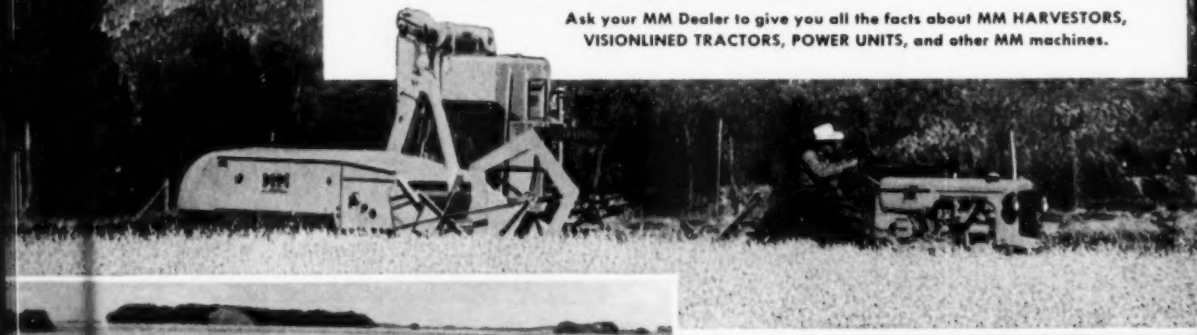
The *proven dependability* of MM HARVESTORS in heavy crops, down grain, light stands, and under *all* field conditions, stems from many exclusive and outstanding features such as: **EXCLUSIVE CYLINDER FEED**—unthreshed grain is spread out by the feeder conveyor, two beaters, and metal curtain before delivery to cylinder. This stops slugging and uneven feeding, and gives highest threshing results . . . **MM RASP-BAR CYLINDER and ONE-PIECE WELDED CONCAVE and GRATE** provide a positive *rubbing* action, similar to rubbing out grain between your hands, without cracking the grain or breaking the straw and weeds to bits . . . **EXCLUSIVE GRAIN PAN DESIGN**—fishback channels and a steep 8-inch drop from grate to cleaning shoe prevent bunching of grain at sides or ends on rolling land . . . **CLEANING SHOE is AUTOMATICALLY LEVEL** and always in its best cleaning position regardless of the tilt of the HARVESTOR.

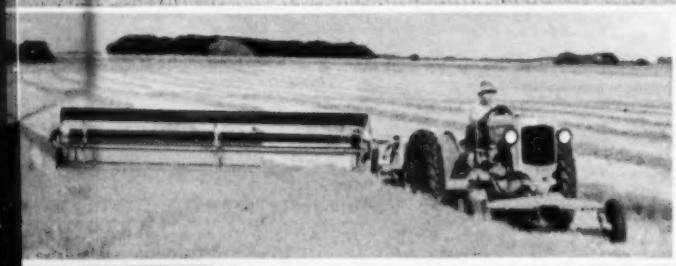
The HARVESTORS are of single unit construction balanced over the main axle for easy pulling and handling. MM HARVESTORS are durably built to last for years . . . upkeep costs are always low . . . breakdowns in the field are almost unheard of. New **UNI-MATIC POWER** gives instant hydraulic control of cutting heights on the go. MM HARVESTORS are designed and built to get all the crop under all combining conditions and always *at lowest possible cost*.

Ask your MM Dealer to give you all the facts about MM HARVESTORS, VISIONLINED TRACTORS, POWER UNITS, and other MM machines.

MINNEAPOLIS-MOLINE

MODERN MACHINERY





MINNEAPOLIS-MOLINE

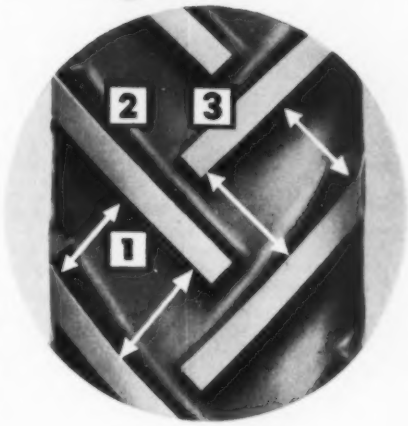
MINNEAPOLIS 1, MINNESOTA

Only *one* tire gives you all *three!*

1 **Wedge-grip action.** Note how Goodyear SUPER-SURE-GRIP lugs are set closer together at the shoulder than at the center — don't flare out as in most tires. *Result:* soil is *wedged* between SUPER-SURE-GRIP lugs to give stronger, firmer grip.

2 **Straight bar lugs.** Because Goodyear's husky lugs are set straight as a ruler, they give you more gripping surface than lugs that toe in. *Result:* SUPER-SURE-GRIPS give you *full-lug pull* for their full length and depth.

3 **Self-cleaning** O-P-E-N C-E-N-T-E-R. Only Goodyear gives you this O-P-E-N C-E-N-T-E-R design with straight, even-balanced, equal-size, wedge-grip lugs—and with no mud-collecting connectors, hooks, knobs or elbows. *Result:* SUPER-SURE-GRIPS give deeper bite, more even pull, smoother ride, longer wear.



Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

That's why Super-Sure-Grips are FIRST CHOICE among Farmers

Only Goodyear SUPER-SURE-GRIPS give you these three important features that insure greater grip in hard going. Farm experience proves they are *best* for pulling power, *best* for non-slip traction and *best* for wear. Farmers from one end of the country to the other voted SUPER-SURE-GRIPS their *First Choice* tractor tire!

Why not ask your Goodyear farm tire dealer to show you these tires that *pull where other tires won't?* They cost no more than other tires.

GOODYEAR

Super-Sure-Grip Tractor Tires

"Horseback Life" PAYS for this Farm Family!

Father Quit Bank Job To Farm—Now Shows Champion Horses

Randy Rust, father Franklin Rust, and "Hot Document". Rusts are another farm family of Wheaties eaters. YOUR folks getting Wheaties nourishment too?

BLOOMINGTON, ILL.—Several years ago Franklin Rust quit a bank job to farm. Today Rusts farm 600 acres! Also show champion horses. Their pony "Hot Document" took top honors at several 1949 shows.

* * *

Whole Rust family horseback fans. Mother and sons Randy and Bill ride for sport. Father rides to look over stock and land. Stock includes steers, hogs, milk cows. Plenty of milk for the Rust family's Wheaties! Whole family eats Wheaties often, with milk and fruit.

"Not much dinner for me. I wanna save room for tomorrow's *Wheaties!*"

95-year-old great-grandmother of family has made 16 quilts—*still doesn't wear glasses!* She's a Wheaties fan! 4 generations of Rusts eat Wheaties. Not unusual! More families eat Wheaties than any other whole wheat cereal.

Second-helping good—Wheaties! Nourishing, too. You get B-vitamins, minerals, protein, food energy in Wheaties, "Breakfast of Champions!"

Extra value with Wheaties. (1) *Silverware coupons in Wheaties and other General Mills products.* (2) *50% more than regular size in Wheaties' Extra-Big-Pak.*

"Wheaties" and "Breakfast of Champions" are registered trade marks of **General Mills.**

Successful
Farming
The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

June 1950 Vol. 48, No. 6

Cover photograph by Marion Pease

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IT WAS WELL WORTH SPENDING

A half hour at Harmon's

FRED LEWIS glanced at the clock in Harmon's Drug Store window, saw that it was only half past three and decided that a table in Harmon's would be as good a place as any to go over the papers in his brief case—especially if the table had a cup of coffee on it. He had another appointment in town at four, and there wasn't much point in walking back to his office now.

Fred stepped inside and looked around for an empty table. He waved casually to a tall man standing at the fountain and nodded to a young couple seated at a far table. There was an empty booth in the back of the store, next to three teen-age girls who were huddled over their sodas and talking so excitedly that they didn't notice him when he sat down.

As he sipped his coffee, Fred couldn't help hearing scraps of conversation that drifted across the partition.

"Well, it's all settled!" one said. "Last night Mother and Dad and I had a long talk—and guess what! I'm going to the University next fall! Dad says it will cost a little more, but it's just wonderful for journalism, you know!"

"Oh, I'm *so* glad you're going!" the second girl exclaimed. "That will make two of us, then. I wouldn't think of going anywhere else. There's such a grand crowd there, and..."

Fred glanced over his shoulder for a second look at the young ladies—and noticed that the third girl was sitting very quietly. It was then he recognized her . . .

Nancy Baxter. Yes, that was Tom Baxter's little girl. He hadn't seen her for several years . . . not since he had stopped at the house, after her father died, to talk with Mrs. Baxter about her husband's life insurance. Tom was about as sensible a man as Fred had known in all his years as New York Life agent, and the insurance program they had mapped out together would . . .

The first girl was talking again. "Come on, Nancy," she said, "tell us—what are *you* going to do when school is out? *You* must have some plans . . ." She stopped, as though suddenly embarrassed . . .

There was a short pause, during which Fred almost held his breath. Then Nancy Baxter said, rather quietly, "I am going to the University next fall, too."

Fred Lewis closed his eyes, conscious only of the pride and thankfulness in the young girl's voice—and of the deep, deep sense of satisfaction that welled up inside himself. He finished his coffee and left to keep his four o'clock appointment.

NEW YORK LIFE INSURANCE COMPANY
51 Madison Avenue, New York 10, N. Y.

Naturally, names used in this story are fictitious.

Farm Outlook

Latest information on conditions, production, markets, and income prospects

Harvest time again

Another big grain harvest is under way, rolling in in a wide sweep, up from the Southwest. It's not as big as the estimates of early winter, but large enough for all requirements here at home and abroad. And there are more than enough feed grains to produce all the milk, meat, and eggs consumers will buy during the next 12 months.

Price outlook—for most crops and livestock—remains good. There is good consumer demand. This is strengthened by large industrial employment flowing from the home-building boom, big auto production, and the lively television industry.

Prices of farm products would go higher if some of the 5 million unemployed could get jobs. A good boost in export of farm products is needed, too.

Big wheat supply

Even though the new wheat crop makes only 1 billion bushels, total supply for 1950-51 will be over 1.4 billion because of a sharp drop in exports.

Consumption of wheat here at home continues to decline, totaling only 685 million bushels during the crop year ending this month. That's the smallest in nine years.

Secretary Brannan must decide soon on marketing quotas for the 1951 crop. Chances are there won't be any quotas, unless total wheat supply tops 1.5 billion bushels—an unlikely prospect at this time. Acreage allotments, though, may be cut 10 percent below last year's plantings in an effort to hold the 1951 crop down to 1 billion bushels.

Big feed supply

Feed grains will be plentiful, should be reasonably priced in relation to livestock next fall and winter, this despite a good-sized cut in 1950 corn crop. Difference is in big carryover.

Cash corn prices have been helped this season by big exports, estimated to run 150 million bushels through October 1. This is the biggest in more than 20 years. European farmers find American corn the best feed for expanding their livestock industry. They will continue to take good quantities in 1950-51.

How to cut costs

Every farmer wants to cut costs. The Bureau of Agricultural Economics says that on many farms it can be done by (1) using more protein feed in balanced livestock rations, (2) making more efficient use of fertilizers on crops that will respond to their use, (3) substituting legumes for grass seeds in many of the seeding mixtures, (4) buying insecticides well in advance of seasonal application, and (5) combining labor, power, and machinery operations to obtain fullest efficiency and economy from the power unit.

B.A.E. says that in figuring the effect of any proposed change in production practices on costs, you should consider its effects on the *cost per pound* of product obtained rather than on the cash outlay alone.

Buying a few hundred pounds of soybean meal or other high protein feed will increase your total cash outlay, but will decrease the cost per pound of milk or hogs produced if it is used to balance the ration. It will make your home-raised grain go further and increase the production of livestock.

Milk tide rising

Production of milk this month likely will be the largest in several years. January-March first-quarter production was over 1 billion pounds more than in the same period last year; output for the first six months is likely to show even bigger gain. Great interest centers in what will happen to butter sales when the new margarine law goes into effect July 1. Straw in the wind is that the P.M.A. owned practically the entire cold storage supply of 94 million pounds of creamery butter in April. That's evidence that commercial operators see little prospect of profit come the seasonal decline in butter production. Moreover, the April stocks were more than 15 times the holdings at the same time last year.

Unless you are going to produce butter only for government giveaway, you must cut production costs all along the line.

Cottonseed bail-out

The margarine law has had effects in other directions. Margarine manufacturers have increased their buying of ingredients in readiness for a sales jump, beginning in July. For one thing, it has helped to bail the C.C.C. out of a big surplus of cottonseed oil the agency acquired under its cottonseed price support program last winter. Soybean oil offered little competition, because there wasn't much. But 1950-51 will tell a different story. Soya and cotton oils will be in heavy supply and tough competition all season.

Opportunity for poultrymen

Discontinuance of price support for chickens and turkeys is an effort by the Production and Marketing Administration to cut down oversize poultry flocks. First-quarter hatchery production was 1 percent above same period in 1949, but total through this month will probably decline. It isn't so profitable now for high-cost producers to be in the poultry and egg business.

Demand for meat

Consumers are showing a strong demand for meat. This demand is expected to provide good support for livestock markets during the remainder of 1950. However, don't forget consumers want a *steady* supply of meat. As farmers change their rate of marketing, prices must be raised or lowered to bring consumer purchases in line with changing market supplies.

Hogs. A lot of fall pigs are on the market now. Hog and pork prices are lowered in order to move the pork out over retail meat counters. In July and August, supplies will be smaller, prices will rise. Best markets will be in August and September. Expect top prices at Midwestern markets to be around $19 and $20 a hundred pounds.

Efficient hog producers almost always make money; they have a good chance to make some on fall pigs for market next year. Feed supplies will be large, and general price levels will be sustained by another big federal deficit in 1951.

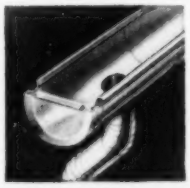
Cattle. Prices for top grades of cattle usually work higher after June 1. Expect some rise this year, but less than in either of the past two seasons. Feeders put in an unusually large supply of calves last fall, so supplies of fed cattle will be large, especially late in the fall. Top may come in September or October, rather than November or December.

The market for grass-fat cattle should hold up well during the next three months. A high level of employment and good wages will provide a strong demand for beef from Medium-grade steers.

Looking ahead a year or two: prospects are good for making profits by converting high-quality pasture, hay, and other roughage into beef. Young, growing stock probably will be more profitable than beef cow herds. END

Hundreds of Farmers are Planning Now to Build These Modern Farm Buildings with REYNOLDS *Lifetime* ALUMINUM

From up and down the farmlands of America, there has been a tremendous response to the new building plans offered by Reynolds Farm Institute. It's proof that farmers *want* these modern, low-cost, work-saving structures, built with the modern labor-saving material: aluminum.



CORRUGATED 5-V CRIMP

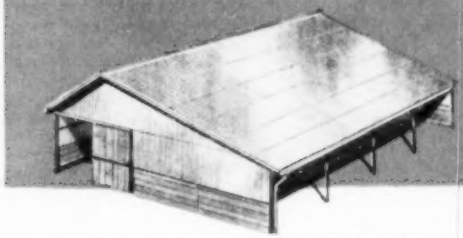
WEATHERBOARD SIDING

GUTTERS AND DOWNSPOUTS

Farmers want aluminum because it is rustproof, needs no painting, resists fire and vermin...and reflects radiant heat so buildings are cooler in summer, warmer in winter, increasing poultry and livestock production. They want Reynolds *Lifetime* Aluminum because Reynolds offers high-strength roofing and siding in both smooth and stipple-embossed finish...plus aluminum nails and complete accessories... plus half-round or ogee gutters and downspouts. Also aluminum-surfaced roll roofing and reflective insulation.

Get started with *your* plans. Mail the coupon. Meanwhile, see your building supplies dealer. **Reynolds Metals Company**, Building Products Section, Louisville 1, Ky.

Plan to Build This LOW-Cost MODERN BARN



Build it at half the cost of a conventional barn. It cuts in half the labor of handling feed and livestock. Designed and tested by Doane Agricultural Service. For more information check coupon. For detailed building plans, from Reynolds Farm Institute, send $5.00 with coupon.

Reynolds also serves the farmer with Aluminum Cable (ACSR) Portable Irrigation Pipe, Siphon Tubes, Paint Pigment and Freezer Foil.

Plan to Build this complete "MACHINERY CENTER"

This new concept in a mechanized operations center can be built at half the cost of an ordinary machinery shed. Developed by Doane Agricultural Service, detailed plans and directions for construction are made available by Reynolds Farm Institute. Check coupon for more information, or send $5.00 for complete plans.

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Note the "Aluminum Adaptor Plan" offer—it's for use with any U. S. Dept. of Agriculture drawings. And you'll want that 8-page catalog!

Reynolds Metals Company
Building Products Section, Louisville 1, Kentucky

REYNOLDS FARM INSTITUTE, Box 1800, Louisville 1, Ky. S-6

Please send me ☐ **FREE 8-page catalog of Aluminum Farm Building Products** ☐ **FREE "Aluminum Adaptor Plan"** ☐ **FREE literature on Machinery Center** ☐ **FREE literature on Labor-saving Barn**

☐ **I enclose $5.00 (check, cash or M.O.) for full set of Doane Pole-Frame Barn plans**

☐ **I enclose $5.00 (check, cash or M.O.) for full set of Machinery Center plans**

Name _____

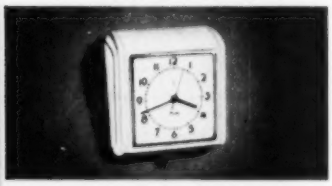
Address _____

Time for giving

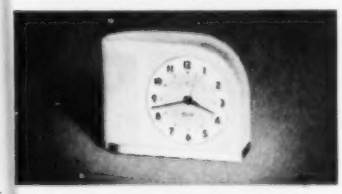
...to the bride

to the graduate...

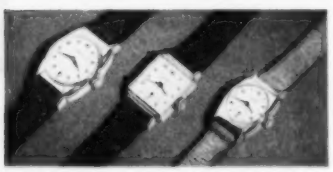
Big Ben Electric Alarm has a pleasing bell alarm. Rich brown case, gold color trim. $8.95. With luminous dial, a dollar more.



Dunbar Electric Wall Clock. Case is tilted forward for easier reading. In choice of ivory, white, red, or green finish. $5.95.



Moonbeam Electric Alarm calls 2-ways; first, *silently* with a blinking light. Then *audibly*. $9.95. Luminous dial, dollar more.



La Salle Wrist Watch looks twice its price —$5.95. Luminous, dollar more. **Rajah**, handsome for dress, sturdy for play. $9.95. **Lance**, Westclox finest wrist watch, with 10-kt. rolled gold plate front case. $11.95.

Prices quoted do not include tax and are subject to change

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Products of GENERAL TIME Corporation

Friend to Friend

Borrowed subsidies

Should farmers direct their efforts toward reducing subsidies for other groups, or attempt to obtain for themselves comparable federal handouts? In despair of stopping the golden flood, I am afraid many have concluded they might as well get their share. (See "How Much Subsidy Do Farmers Want," page 48.)

Like a friend who is a retired Michigan farmer, I find it hard to censure farmers as a group for accepting subsidies. This friend raises a worthwhile thought about the sources of these benefits. He argues that they are just one of the many sources that build up our vast federal deficit. And in the final analysis, we are spending future earnings of unborn generations to subsidize ourselves.

According to my friend, that is the unfairness of subsidies, for they are a mortgage against the earnings of generations who will have the painful experience of paying for something their ancestors took from them.

Production where it is needed

According to a reputable economist, our surpluses of food could be wiped out through the process of adjustment. For example, he points to the fact that we have an artificial surplus of grain amounting to 296 million bushels. But if every American ate as much as the best-eating average American consumes each day, we would have a grain shortage three times as large as our 1949 surpluses.

Dr. Karl D. Butler finds that 28½ million Americans ate 10.30 ounces of meat, 1.06 eggs, and used 1.07 pints of milk and cream daily. It is assumed that such a quantity is not excessive, but well balanced for a normal, active person. Unfortunately, the average American's consumption falls considerably below that figure, especially for meat.

It may be assuming too much to hope every American can be induced, through educational methods and favorable prices, to eat his normal share of our meat supply. For the welfare of the producer, as well as the nation at large, the returns are so attractive as to justify extensive efforts, however.

The dairy outlook

Dairymen face the urgent necessity of much lower costs of production and much higher quality generally. No reflection is cast upon those efficient, hard-working farmers who designate themselves as dairymen by virtue of 5 or more dairy cows on their farm.

Dairy methods must submit to revolutionary changes comparable to those which have come to crop production and the handling of other classes of livestock. The handling of milk cows and the associated chores involve entirely too much hand labor. And such hand labor is poorly paid. The fact that frequently such labor has little commercial value will tend to delay acceptance of mechanization and efficiency.

The milking machine and lately the gutter cleaner have been steps in the right direction. Upon our agricultural engineers, college dairy departments, and publicity agencies such as the radio and the farm press, there still rest major unsolved problems. Practicing dairymen must make heavy contributions to their solutions, too.

Perhaps specialization and the substitution of capital for labor represents the first approach to more profit in dairying. While it is true a young man must start humbly and therefore be content with lower returns per hour of labor, his objective should be a larger herd than now prevails. He must install dairy equipment equivalent to the modern corn planter and other farm machinery employed in producing the feed for his herd. And he must have a sufficiently large herd of high-producing capacity to pay the bill and leave him a profit.

Don't be misled

Sympathy and tears have no place in selling magazine subscriptions. *Successful Farming* is sold on its merits alone—no sympathy tie-ins with veterans, polio victims, or other groups, however worthy. We say that again, as we've said it before. It is everyone's privilege to contribute to whatever cause he deems worthy. But most people prefer to choose their own organization and contribute directly.

Mixing business and pity is an old, discredited dodge, but we still hear of *some* magazine salesmen peddling their wares that way. These men imply that a "big share" of your subscription money will be used in your own community—wheel chairs for hospitals or as a contribution to the treasury of a veterans' organization.

But here's the hooker: In practically every case we've heard about, not over 10 percent goes to any local outfit with which the salesman has made a deal. He collects, say, $5 from you. Only 50 cents goes to hospitals or veterans' groups.

Now we are in full accord with good hospital equipment for the sick and unfortunate and with the aims of our reputable veterans' organizations. But we also want our farmers to know the true story and get their money's worth when they subscribe to magazines. And for that reason, our *Successful Farming* subscription men will continue to deal with you on a strictly business basis.

Kirk Fox

Keen farmers and ranchers the country over have the vision, know-how and ingenuity to tackle their problems and solve them with custom-made machines that save time, money and trouble.

An outstanding example is Mr. Louis Zinke, near Yoakum, Texas, who has built this "tree shaker" of 3/4" pipe and an old Havoline Motor Oil drum. It is operated by hydraulic power from his tractor. Mr. Zinke is shown demonstrating his invention, with his son Andrew posing in the drum. Like leading farmers everywhere, Mr. Zinke has found that *it pays to farm with Texaco Products.*

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...to give
BEST performance
BEST protection

Tests Show Custom-Made Havoline Reduces Ring Wear 60% to 70% Over Even Good Heavy-Duty Motor Oils

For tractor, car and truck engines, Havoline Motor Oil is custom-made to give extra cleaning action and fight corrosion, rust, acids, sludge and wear.

You get easier starting, smoother performance, more power, more gas-miles, better lubrication protection, longer engine life and lower upkeep costs.

Custom-Made Havoline Motor Oil not only is even better than its famous predecessor—it *surpasses all Premium motor oils.* Tests show it is equal to the best heavy-duty motor oil and 60% to 70% better in reducing ring wear than a number of well-known heavy-duty oils. It is more effective in rust protection than any other motor oil.

Tested and proved in millions of miles of driving in all 48 states, Custom-Made Havoline is best for tractor, truck or car engines. Order some today!

IT PAYS TO FARM WITH *TEXACO PRODUCTS*

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Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

What's new in farming

Tips you can use today

Forage blower

Forage blower. This 10′ auger-type forage blower has retractable wheels which end the need of digging to lower the machine for use. The table is 22″ high, allowing easy wagon clearance. The large-diameter auger breaks up clumps of forage. The feed opening contains 272 square inches, and the blower will handle up to 30 tons of chopped hay and up to 40 tons of silage per hour. For storing, the table can be tilted up out of the way. *New Holland Machine Co., New Holland, Pennsylvania.*

Spreader and seeder. This machine is said to handle hard, lumpy fertilizer as well as finely ground fertilizer. There are 70 settings on the rate control. Adjustments will take care of rates as low as 2 pounds of Ladino clover per acre and, when opened wide, will spread 4,000 pounds of commercial fertilizer per acre. The machine can be equipped with fertilizer bars for applying fertilizer and the seed bars for seeding. The rotor mechanism can be lifted out of the hopper for cleaning by releasing a lever on the clutch. A shutoff lever can be reached by the tractor operator from the tractor seat. The lever can be adjusted for any make of tractor. The machine is made in 8′ and 10′ widths, and in both single and double hopper units.—*E. S. Gandrud Co., Inc., Gandrud Bldg., Owatonna, Minnesota.*

Alfalfa for pigs. If your pigs are on alfalfa pasture this summer, you can leave out animal protein supplements, such as meat and bone scraps, and still get good, low-cost gains. The Illinois College of Agriculture has completed an experiment which proves this idea. In the experiment, pigs fed no meat and bone scraps gained about as fast and as efficiently as pigs that received the animal protein. Both lots of hogs were on the same alfalfa pasture during the experiment.

Sprays damage legumes. If you are sowing legumes along with your small grains, go easy on the use of chemical sprays for weed control. The University of Missouri Field Crops Department points out that legumes are easily killed by the application of chemicals. Chemical sprays for legumes seeded in small grain should be used for spot treatments only.

Crown rust in oats. Crown rust may be a serious disease to oats in Ohio in 1950. A form of this disease—Race 45—which attacks Clinton oats was present last year, and pathologists are afraid it may survive the mild winter. Ohio agronomists list these varieties as being susceptible to this particular race of crown rust—Clinton, Clinton 59, Clinton 11, Benton, Shelby, Andrew, Bonda, Mindo, and a few others. The Canadian variety Ajax has some resistance to this race of crown rust.

Wilt-resistant tomato. A new yellow tomato will be available for planting this year in both home and commercial gardens. Purdue University has announced that the new variety, named Sunray, has good size and quality, as well as resistance to soil-borne fusarium wilt. The new variety is a cross between the Pan American and the Jubilee. The Sunray season is medium early. With its heavy plant foliage, this new strain should do exceptionally well during the hot, dry periods of the summer.

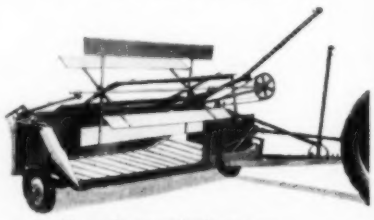
Dump wagon. In unloading this wagon, the back wheels are blocked and the tractor backed up. As the

Dump wagon

tractor is backed, the wagon box is raised and the load is dumped. Dumping is done through a cable-pulling piston action of the towing tongue. The wagon box can be set at half or full tilt and may be towed in either of the two positions for spreading corn, small grain, or gravel. The all-steel wagon has a capacity of 8,000 pounds.—*New Monarch Machine and Stamping Company, Des Moines, Iowa.*

New sweet potato. If you are one of the many who hanker for sweet potatoes with your ham but can't seem to get them to grow, take heart. Purdue University has announced a new brush-type Porto Rican sweet potato especially adapted for the home garden as well as for commercial use. Purdue reports one out-of-state grower has about 5,000 bushels of certified seed for sale.

Swather-windrower. This 8′ swather-windrower cuts and windrows oats, wheat, and other grain crops in one trip through the field. Cutter bar, reel, and conveyor platform are all adjustable to accommodate various crops and field contours. Spindles placed on the frame allow tandem positioning for highway trailing. The machine is claimed to reduce wind and rain losses by allowing early cutting and field ripening.—*Coats Loaders & Stackers, Inc., Fort Dodge, Iowa.* [*Turn to page 87*



Swather-windrower

Whether you haul grain . . . livestock . . . or supplies . . .

NEW INTERNATIONAL TRUCKS

are *Heavy-Duty Engineered* to save you money

Every new International Truck, from smallest to largest, gives you heavy-duty engineering. That's the extra-value engineering which for years has spelled peak performance for heavy-duty truck users.

Here's why this is important:

Heavy-duty truck buyers keep a close tab on operating costs. When they pick trucks, they pick the ones that deliver the most value.

For 18 straight years these exacting truck buyers have chosen more heavy-duty International Trucks than any other make.

You can be as sure that International's heavy-duty engineering will cut your operating costs as you are that higher-grade seed will produce a better yield.

And look what else you get in addition to the proved value of heavy-duty engineering . . .

You enjoy easier riding and easier handling when you sit in the Comfo-Vision Cab, "roomiest cab on the road." You're surrounded by features that add up to greater riding and driving comfort.

You enjoy unobstructed visibility through the one-piece, curved Sweepsight windshield. You find greater convenience and safety in the curved-contour instrument panel with its two-cluster instrument grouping. You discover easier steering from a more comfortable position in new Super-steering.

See the new "crop" of Internationals at your International Truck Dealer or Branch. Find out how new Internationals meet International Harvester's highest quality standards. Get the facts about the complete bumper-to-tail-light specialization that only the builder of the world's most complete line of trucks gives you. Inspect all the new features—every one proved under actual operating conditions.

Visit your nearest International Truck Dealer or Branch soon.

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INTERNATIONAL TRUCKS

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It's hard to believe
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KEM-GLO
looks and washes like baked enamel

ONLY $2.39 QUART

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for finest woodwork everywhere

Wherever you want a beautiful finish that will last for years on walls or woodwork, KEM-GLO is your answer. Its amazingly tough surface withstands scuffs and fingerprints—washes hundreds of times without losing its lustrous beauty. Dirt, grime and grease do not penetrate KEM-GLO's plastic-smooth surface. It cleans as easily as your refrigerator. One coat covers most surfaces, saving time and money. Try this new miracle finish. You've never seen its equal.

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INSIST ON GENUINE KEM-GLO... SOLD AT LEADING PAINT, HARDWARE, DEPARTMENT STORES EVERYWHERE

THE Farm

By Gus Larson

When chased, which way does a fox turn? Does a tailorbird sew like a shoemaker? Can cattle be fattened after slaughter? If you want the answers, let's move on to Question 1.

Score 5 points for each correct reply you make. If you score (a) 90 to 100 points—excellent, (b) 75 to 85 points—very good, (c) 50 to 70 points—good, (d) 30 to 45 points—squeaked by, (e) 25 points or below—sorry.

1. The firefly's glow is a cold light produced by the combustion of (a) water (b) oil and sugar (c) luciferin.

2. The root system of a large tree is enormous. The total length of all the roots of a big, spreading tree may be as much as (a) 5 miles (b) 10 miles (c) many hundreds of miles.

3. Tromexan, a new drug, may reduce the hazard of heart attack and save as many as 70,000 lives a year. This drug was developed in (a) Switzerland (b) England (c) United States.

4. The word "bonfire" is from the word "bonefire," once used to designate the pyres of heretics. This statement is (a) true (b) false.

5. Women who use metal curlers consistently or wear their hair in tight braids may run the risk of (a) hair turning prematurely gray (b) developing bald spots.

6. Worst enemy of the wild duck is the crow. The crow will watch a duck's nest for hours until duck leaves. Then crow rushes in and robs nest of eggs. (a) true (b) false.

7. Mrs. Arnold said: "A good memory is one sign of high intelligence." Mrs. Doyle disagrees: "Memory has nothing to do with intelligence." Who is right? (a) Mrs. Arnold (b) Mrs. Doyle.

8. Of every 100 women who reach the age of 30 unmarried, how many will eventually find husbands? (a) 50 (b) 10 (c) 90.

9. Scientists are studying how to fatten cattle after slaughter (rather than before) by (a) injecting fat compound into heart at time of slaughter (b) injection of atoms.

10. Do you know the ways of the fox? Then try this one. When chased, a fox will nearly always turn to (a) left (b) right.

Quizbox

11. Can the tailorbird sew? Using her bill as an awl, she stitches her nest together with straw, horsehair, or grass. (a) true (b) false.

12. Crows will corner and kill large rabbits. One bird pecks at the rabbit's back to confuse him; the other stabs its bill through the rabbit's eye to its brain. (a) true (b) false.

13. Sugar maple trees may live up to 500 years. Some oaks have lived as long as 1,500 years. A few of our sequoias are (a) 10,000 years old (b) 4,000 years old (c) 100,000 years old.

14. Our neighbor's 17-pound (7-months-old) nursing baby wakes up every few hours at night for nursing. Does baby probably need (a) weaning and more protein (b) more milk?

15. President Truman is our thirty-third chief executive. But only 32 men have held that office. How come? (a) Cleveland was both the twenty-second and twenty-fourth president (b) Washington was counted twice.

16. In the news some months ago was a sleek, armored car equipped with writing desk and vanity case. It was custom built for (a) President Truman (b) King of England (c) Churchill.

17. Ten years ago the average young man married at age 26; the woman, at age 23. Now the average marrying ages are (a) man, 24 years; woman, 22 years (b) man, 30; woman, 28 (c) man, 26; woman, 25.

18. A skunk's tail is an effective weapon. But skunks have a gentleman's agreement never to use their tails against each other. (a) true (b) false.

19. Which of the following creatures are used to detect gas in a coal mine? (a) donkeys (b) canaries (c) monkeys.

20. The snapping turtle has a long, fleshy tail. The soft-shelled turtle (he's snappish, too) has (a) ridges on shell and short snout (b) long, pointed snout.

Answers on page 88

Post-Toasting makes the difference in Freshness, Crispness, Flavor!

"You could have knocked me over with a feather! I never knew there could be such a *difference* in corn flakes till I tasted Post Toasties.

"Post Toasties top 'em all. They're so much *fresher, crisper*, simply swell eating!"

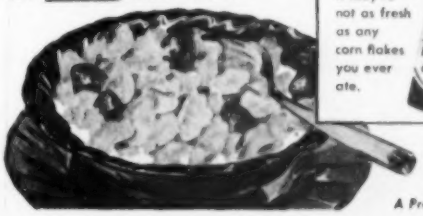
"Post-Toasting" makes the difference! This special process adds *extra* tenderness, *extra* flakiness, *extra* goodness!

What's more, the new Trip-L-Wrap "Keep Fresh" Package brings you Post Toasties *guaranteed fresh*. Get Post Toasties from your grocer today! They're one of the famous Post Cereals.

Don't say "Corn Flakes," say

Post Toasties

—the BETTER Corn Flakes



A Product of General Foods

Of course... it's Electric

Miracle Oven, bakes perfectly in any rack position. Biscuits on top and bottom rack, bake perfectly at same time.

"Look to your Laurels, Mom"

Meet the NEW Cooking "CHAMPION"... this Wonderful Westinghouse SPEED-ELECTRIC Range

It turns amateurs into experts! Into the "CHAMPION" has been built real, honest-to-goodness performance that makes all the difference between cooking success and failure.

On the top of the Range, are 4 famous Speedy Corox® units, each with 5 different heats so perfectly controlled you get *exactly the same results* day after day. Vegetables cook with very little water. A double boiler is never needed. Frying is done at *one* setting.

The "Miracle Oven" is the biggest news of all. Here again the heat is so balanced, so exact, so even in flow that you can bake in *any* rack position. The oven is giant size, too. And with the Electric Timer, oven cooking in the CHAMPION *is completely automatic.*

The broiler is waist-high. And *full-width* so that the outer edges of meat are broiled to the same perfection as the center. The broiling is *smokeless*, too.

Besides all this, the CHAMPION has Tel-A-Glance Surface Controls, that signal which unit and heat are turned on . . . Single Dial Oven Control . . . automatic outlet for plug-in appliances . . . 3 aluminum storage drawers . . . big 40-inch top for extra work surface and many, many more features.

See the new cooking "CHAMPION" and other great Westinghouse SPEED-ELECTRIC Ranges at your retailer's today. Prices start at $149.95.

WESTINGHOUSE ELECTRIC CORPORATION
APPLIANCE DIVISION • MANSFIELD, OHIO

On Surface, extra space between units, largest utensils fit easily. Famous Corox units, 5 heats on each.

New Rancho Range, with tuck-away space. Full-size Range, with four famous Corox Surface Units.

See T-V's Top Dramatic Show . . ."STUDIO ONE". . . Every Week

YOU CAN BE SURE..IF IT'S Westinghouse

June *garden tips*

In the flower garden. Crowded iris clumps should be divided and replanted as soon as they have finished blooming. Remove spent flower heads of peonies and iris as soon as they appear. By doing this all season, your flowers will produce more bloom.

Lift spring-flowering bulbs such as tulips after bloom and store in a cool, dry place until fall planting time. Allow the foliage to start dying before digging. Then plant these vacant borders with glads, cannas, bedding plants, or even hardy mums.

Thrips cause much damage to gladiolus. For control, apply a 5-percent DDT dust at 7-day intervals. Start these control measures as soon as the third leaf appears. If you wait until the thrips have worked their way into the husks, the battle is lost—an ounce of prevention is worth a pound of cure. During rainy weather more applications will be needed, and when weather is hot and dry, apply less often.

Keep leaf spot and mildew on roses under control by weekly doses of dusting sulfur. If you notice some very small worms skeletonizing the rose leaves, mix 1 part of lead arsenate with 9 parts of the dusting sulfur.

Many new insecticides and fungicides are on the market since the war. Make use of them because they are more effective in many ways than the older ones. Your state experiment station can give you the latest information on these.

In the vegetable garden. Restrict your cultivating and hoeing to the top

inch of soil. Deeper cultivation injures roots and cuts yields (above). Don't cultivate right after a light rain; let water soak down first in order not to hasten evaporation by stirring the moist soil.

Mulch long-season crops, such as beans, eggplant, and tomatoes, with straw, chopped corncobs, or hay. Mulching saves moisture, controls weeds, and keeps the ground cooler. Mulch tomatoes with 4 to 5 inches of straw or 2 or 3 inches of corncobs before the vines branch and spread. Apply the mulch following the first cultivation after a good rain.

[*Turn to page 16*

EXPECTING COMPANY? THEN REMEMBER—

NESCAFÉ makes roaster-fresh coffee ...quick as a wink!

SO WONDERFUL when you're entertaining. For with Nescafé* you can either make coffee *right in the cup*—or measure the number of servings into a large pot—add hot water (preferably boiling) and stir.

And your coffee is *roaster-fresh*, because the Nescafé *process* protects the pure coffee goodness until you release it in the cup—fresh every time.

Yes, Nescafé brings you *all* the flavor and "lift" of pure, freshly roasted, freshly brewed coffee, without the muss and fuss of brewing.

It's thrifty, too. The 4-oz. jar of Nescafé *saves you at least 20¢* compared with a pound of ordinary coffee, and makes about as many cups. And the big economy-size jar makes about as many cups as three pounds, and *saves you at least 65¢*. Order a jar today.

THAT'S WHY MORE FARM FAMILIES DRINK MORE

NESCAFÉ

THAN ANY OTHER INSTANT COFFEE!

*Nescafé (pronounced NES-CAFAY) is the exclusive registered trade mark of The Nestlé Company, Inc. to designate its soluble coffee product which is composed of equal parts of pure soluble coffee and added pure carbohydrates (dextrins, maltose and dextrose) added solely to protect the flavor.

"I do my farming indoors!"

says **MRS. J. T. RICE**

"Neighbors are dropping by more often!" says Mrs. Rice of Kevil, Kentucky.

"They come to see my little *in*door crop—geraniums, growing so perfect they're sure to reach the State-Fair-prize class.

"While I hand over seeds and geranium-wisdom, guess what folks praise next? My hands! They look soft, lovely, much too lady-like to dig in flower-pot dirt.

"The reason—hiding behind my best blossom on a window sill—is a bottle of Jergens Lotion. I often smooth it on my hands (and on my green thumb, too!)."

"Salting meat dries hands! So—Jergens Lotion again! Being liquid, it quickly furnishes softening moisture thirsty skin needs. Hands look pretty in the parlor after Jergens!" (10¢ to $1.00, plus tax.)

"Charlotte lends a hand to dishwashing. So, I lend her my Jergens in return. Jergens Lotion keeps hands free from chapping, even after laundering and floor-scrubbing."

Try this film test. To soften, a lotion or cream should be absorbed by upper layers of skin. Jergens Lotion contains *quickly-absorbed* ingredients doctors recommend—no heavy oils that *coat* skin. Proof? Water won't form "beads" on hand smoothed with Jergens Lotion (left) as with lotion or cream that leaves a heavy, oily film (right).

More women use **Jergens Lotion** than any other hand care in the world!

June garden tips

[*From page 15*]

Three hard-to-kill garden insects can now be held in check by a form of DDT called *Purified DDT* (aerosol grade). This new and safer DDT is now available. It is safe to use on vine crops such as cucumbers, melons, and squash, *but use it lightly*. Regular DDT may stunt or kill these plants. Apply the new DDT as soon as the plants have their first set of true leaves.

Sudden wilting of squash vines is often caused by *squash-vine borers* tunneling into the stems. The squash-vine borers are somewhat whitish, thick-bodied, grublike insects. Look for holes in the vines near base of plants and for signs of a coarse, yellowish excrement. Control

Squash-vine borer

the borers with dusts containing 1-percent rotenone or 3-percent purified DDT. Make 3 to 5 applications at 7- to 10-day intervals. Direct the dust toward the bases of the plants.

The poison and damaging bite of the *squash bug* causes wilting, curling, and blackening of leaves on melons, cucumbers, pumpkins, and especially on late winter squash. Get the squash bug under

Squash bug

control early by spraying the young bugs with nicotine sulfate, using 1 tablespoon per gallon of soapy water (do not use detergents). Purified DDT may be used, but use it *lightly* (only a light film of dust is desired). A 3-percent dust will kill both young bugs and adults. Dust undersides of leaves and ground surface thoroughly.

Young cucumber plants are most open to attacks of the *striped cucumber beetle*. A good safeguard is to keep the plants

Striped cucumber beetle

growing well by feeding and cultivating them often. Control the beetles by dusting the plants every 7 days until fruit sets. Start dusting as soon as the plants are up. Use purified DDT applied *lightly*, especially to undersides of leaves. Cucumber beetles usually will be controlled by the time fruit starts setting. If they persist, change to 1-percent rotenone applied every 7 days, being sure the vines are covered at all times.

The above control measures are good for the spotted cucumber beetle, also.

For plant lice (aphids), use a 1-percent rotenone dust or spray. Apply every 7 days. The same control can be had by using 1 teaspoonful of nicotine sulfate in 1 gallon slightly soapy water (don't use detergents). Apply every 7 days. **END**

B.F. Goodrich

tractor tire with

POWER-CURVE CLEATS

BFG Power-Curve tires give long wear even when you use your tractor on roads or paved highways.

This open center tread stays clean. High cleats are specially shaped to dig deep . . . and pull!

OUTPULLS other leading brands

gives you more power, more traction!

THIS new B. F. Goodrich open center tread is based on an entirely new design principle. The husky Power-Curve cleats are spaced according to a special mathematical formula so as to give maximum cleaning. A really *clean* tire gives more traction. Too, the special "check-mark" cleat acts as a brace, gives the cleat a **hard-pointed nose** which stands rigid and digs in; again, more traction. Power-Curve cleats are high at the shoulders and high at tread center, the vital traction zone. BFG cleats are higher in the center than those of the other two leading tires!

Power-Curve lasts longer

. . . gives you up to a year more wear!

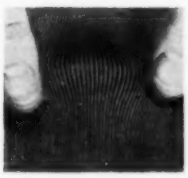
You get longer wear from new Power-Curve tires because the curve in each cleat makes it stand rigid—prevents bending and scrubbing on hard surfaces. BFG tractor tires have always been famous for long wear. Now, you get even more wear. There's more rubber in the tread. Sidewalls are reinforced. *Many farmers will get as much as an extra year of wear!*

See for yourself . . .

. . . compare the 3 leaders before you buy!

Examine the tread designs of the 3 leading tractor tires. If you have the chance, watch all 3 perform! You'll see why BFG Power-Curve outpulled and outwore other makes in hundreds of tests throughout the country. *The B. F. Goodrich Company, Akron, Ohio.*

You'll save with BFG tires on your car, too!



The picture at left shows ordinary tire cord. Cross-threads tie cords together causing them to bunch or leave gaps. BFG tire cords work together in unison—as in the center picture. There are no cross-threads; each cord is perfectly spaced, surrounded with rubber. Rythmic flexing cords share the wear, cushion impact and absorb shock—give you Rythm Ride.

RESEARCH KEEPS B.F.Goodrich FIRST IN RUBBER

NOW! Dental Science Shows That Brushing Teeth Right After Eating with

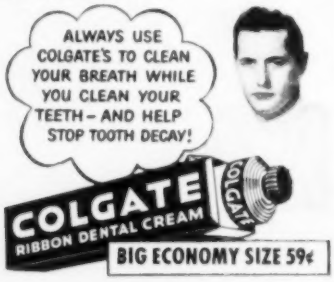
COLGATE DENTAL CREAM STOPS TOOTH DECAY BEST

Better Than Any Other Way of Preventing Tooth Decay According to Reports in Authoritative Dental Literature!

2 years' research at 5 great universities—case histories of hundreds of people who used Colgate Dental Cream right after eating—shows the Colgate way stops tooth decay best! Better than any other home method of oral hygiene known today! Yes, both clinical and X-ray examinations showed the Colgate way stopped more decay for more people than ever before reported in all dentifrice history!

No Other Toothpaste or Powder Ammoniated or Not Offers Proof of Such Results!

Even more important, there were no new cavities whatever for more than 1 out of 3 who used Colgate Dental Cream correctly! Think of it! Not even *one* new cavity in two full years! No other dentifrice has proof of such results! No dentifrice can stop *all* tooth decay, or help cavities already started. But the Colgate way is the most effective way yet known to help your dentist prevent decay.



THE FARMER'S

Washington

- Tough for farmers to plan ahead
- Big crop of new farm plans
- Brannan's friends in Congress are few

Lots of plans. During the last few weeks, new farm plans have been sprouting almost as fast as the corn you've been hustling into the ground. And the debates over the present farm law versus the Brannan Plan have been far from dull.

President Truman himself touched off some of the fireworks. He signed the cotton-peanut resolution, but took the occasion to send a sizzling message to Congress, denouncing the whole present farm program. Brannan was reported to have helped prepare the message. He, of course, has been critical of the present program, in an effort to replace it with his own.

If Brannan did help write it, he certainly must have been surprised at its results—which were swift and sharp. It lost him just about his last friend in Congress. Two days after the president's message came through, Democratic Congressman Harold Cooley of North Carolina—chairman of the House Agriculture Committee—made a bitter statement of his own.

Few friends left. With a resounding thump, he jumped off the Administration's farm wagon. There weren't many passengers left. Congress agrees there are bugs in the present program, but wants to remove them one by one—not junk it all.

"There'll be no significant changes this session of Congress," Senator Clinton Anderson told *Successful Farming*. "And," he added meaningfully, "not in the near future, after that. But we'll always be working to refine the present programs.

"The flexible provisions come into play next year, which should solve some of our present problems. Many want to get the price support program back to easily stored crops, as it was before. Our big losses have been on the perishables such as potatoes, eggs, and milk. With the dust blowing in the southern Great Plains and with the international situation as upset as it is, big grain supplies can be as much of a blessing as they are now a curse."

Another seasoned observer of agricultural Washington uses this reasoning to decide there will be few big farm law changes this year:

"Of 21 Democratic senators up for reelection this fall, the report is that *none* will endorse the Brannan Plan. And 12 or 15 will be outspoken against it. And the Republican party will disavow some of the poorly thought-out plans being offered to it.

"There is a strong fear that if the farm program were opened up now as much as some folks want to open it, *we'd get something worse*. And farmers would have less to say about it than they do now. We don't want that. We want farmers to regain the initiative in farm planning."

New plans? Plenty! There are a lot of folks working to do just that.

Up until just a bit ago, we didn't seem to have much choice. We were supposed to either like the present system of subsidies and controls, or welcome Mr. Brannan with open arms. There was no middle ground.

Lots of folks were something less than joyful about *either* choice. And, it seemed, all the planning was coming from the wrong direction—from the government down, instead of from the people up.

But now, ideas are popping right and left.

The National Grange is putting more and more steam behind its own 6-point program—nub of which is a 12-man Federal Farm Commission, to help the secretary of agriculture.

The Grange leans heavily toward self-financing programs.

Three of the Grange's six points call for no government money, no government control:

1. Lively sales campaigns to help move any crop which seems headed for surplus troubles.

2. More marketing agreements (like those now used for milk) for more crops.

3. A two-price system. Part of a crop would be supported at a certain price, and the surplus sold for lower-price use or exported at a cut rate.

Grange leaders can see where these plans might not do the whole job, so have three types of price supports, for use as needed. Flexible supports first; then rigid prices for some crops. And, finally, direct production payments to farmers if all the other systems fail. A seventh point is talked by the Grange. This is price insurance—a self-financing form of price support. It would mean collecting a fee from farmers on each sale to build a reserve for later support payments.

(Some folks feel it's about 10 years too late to start self-financing plans. If we're going to finance the thing ourselves, they point out, we should have started chipping in during the high period, not when we're running out of marbles.)

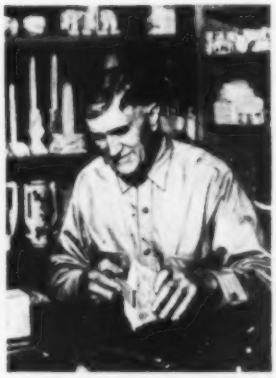
Turn to page 22

STANDARD

FARM NEWS-GRAPHIC

A picture review of successful farming brought to you by the Standard Oil Company

"Sure she works!", says John Duckett of Tyrone, Oklahoma, who is seen with his 1921 tractor which still does a lot of work on the Duckett farm which is run by John and his brother, Russell, and sister, Eunice. In addition they have a 1929 Caterpillar tractor which has been operating continuously with ISO-VIS Motor Oil and PERMALUBE Motor Oil since the day it was bought. The Ducketts are proud of being Standard Oil customers since before the First World War.



Alabaster art is produced from the mineral found near the wheat farm of John, Russell and Eunice Duckett near Tyrone, Oklahoma. Russell is seen carving a lump of alabaster, from which the objects in the background were made.

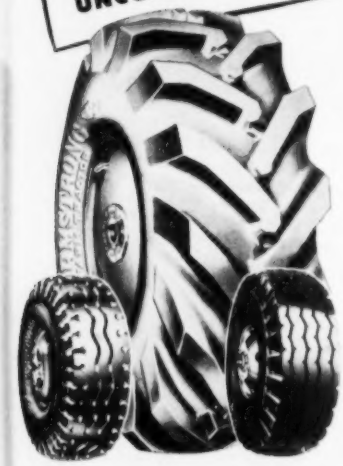
150 blue ribbons have been won by Russell Putnam of Harvard, Illinois, who has been raising pure bred Jersey cattle for more than 15 years. He is shown with his son, Russell Jr., and a Jersey named Volunteer Gem, which won grand championships at the 1949 Illinois and Wisconsin State Fairs. Both father and son believe in giving livestock the best of care, and choose BOVINOL Stock Spray with Methoxychlor to destroy stock-disturbing insects.

When the snow blows, Orville Ourenhagen of Enderlin, North Dakota, gets busy with his home-made snow plow. Inventor Ourenhagen built the tractor-propelled plow from parts taken from an old combine and grain separator. The blades are driven by a 25 h.p. gasoline engine powered with STANDARD RED CROWN Gasoline, which he has used for 19 years.

Your Standard Oil Man

RUGGED as a RHINO

Only Tractor Tire GUARANTEED for 2 years UNCONDITIONALLY



ARMSTRONG Rhino-Flex TIRES

IN Armstrong Tires you get *features found in no other tire* . . . such as Rhino-Flex construction—the amazing tougher, more flexible shock-absorbing carcass. Blow-out resistant *"Heat-treated" cords.* Next time you need a passenger, truck, or tractor tire, see your Armstrong Dealer. Try *one* Armstrong and you'll never be satisfied with any other tire! *Armstrong Rubber Company, West Haven 16, Conn., Natchez, Miss., Des Moines, Iowa. Export Division: 20 East 50th Street, New York 22, New York.*

ARMSTRONG Rhino-Flex TIRES

This month's cover

Purebred Angus cattle raiser Bill Henry builds a moneymaking herd

By Dick Hanson

The distinguished-looking gentleman on our cover this month is on the William Henry, Jr., farm near Cambridge, Illinois. Barbarian of Rosemere 213 is the herd sire for Bill Henry's purebred Angus cattle. "Barb" is a comparatively new addition to the Henry herd; he's just 2½ years old. And he will have quite a job ahead of him if he is to hold up the record established by Bill's cattle in the past.

Bill and his father have topped the steer and heifer market in Chicago for the last 11 years. Bill's father started him off with 12 purebred Angus heifers in 1937. Since then, Bill has kept all the best heifers produced from the original 12, and added them to his growing herd. Some of the bull calves produced are sold for breeding stock. Extra heifers and steers go to market.

The Henry herd has grown considerably since its beginning. Bill now has about 70 cows, 75 percent of which are registered purebreds. The other 25 percent are purebreds but not registered. Bill and his father own two farms which they operate together as one unit. Although Bill has gone into purebred cattle as his main source of income, he does raise about 400 head of Hampshire hogs every year.

The Henrys never sell grain from their 360 acres of rich Illinois farmland. They market their grain through their cattle and hogs. It takes a pile of grain to feed the Henrys' livestock, but Bill doesn't depend on grain alone. He believes that for a farmer raising his own livestock instead of buying feeders, grass is equal to grain in value.

Bill puts in 120 acres of corn and 50 acres of oats every year. The rest of the land is in grass. The five-year rotation is corn, corn, oats, alfalfa and brome. Bill thinks his alfalfa and brome pasture is the biggest factor in cutting production costs. Last year, 10 acres of this mixture carried 25 cows and their calves for two months. Pastures like that make Bill's grain go further and last longer.

Frances, Bill's wife, is an enthusiastic partner in the big job of producing moneymaking purebred cattle. She and Bill spend hours poring over livestock magazines and purebred Angus sale notices. For all their interest in purebred cattle, they both say their family comes first. Which means that Susan Gay, 1½ years old, doesn't lack for attention from her proud parents. With so much family interest, it's not hard to understand why Frances and Bill's home is comfortably furnished.

Although Bill is, as he puts it, a beginner in the purebred livestock field, he does have many plans for the future. He wants to build up his herd to the point where he can have a purebred sale at his farm every year. First on the list of building projects is a large shed which will serve as a machine shed most of the year, but will also see duty as a sale pavilion.

The Henrys have no formula for success. Unless, of course, you want to regard hard work liberally mixed with good living and ambition as a formula. Bill and Frances are confident that their purebred Angus cattle were, and will continue to be, a good investment. And by the looks of our cover subject, Barbarian of Rosemere, that confidence is shared.

Little Susan Gay keeps her mother busy, but Mrs. Henry takes an interest in the farm, too

Family fun in the living room, with Bill playing the proud father, ends the Henrys' day

Tune in HENRY J. TAYLOR, ABC Network, every Monday evening

Ride it where the road runs out

TRY it, of course, on boulevard-smooth macadam—and you find this fresh-lined beauty rides like a dream.

But what we have in mind, good sir, is for you to discover—*by actual trial*—that this brawny Buick also takes side roads and back lanes with the same level softness it does the broad highway.

That means—sample the Buick ride in your kind of road test.

Pick out a stretch of washboard surface and note how Buick's use of soft coil springs on all four wheels plus precisely engineered shock absorbers cushions away the jounce and jitter you took for granted before.

Find some winter-weathered black-top and feel how you fairly float over the dips and chuckholes and inches-wide cracks—because Buick's practically break-proof coil springs and low-pressure tires keep you level and pillow your going.

Head into a curve and see how solid and steady you track—thanks to Buick's wide Safety-Ride rims and the rigid keel of a full-length torque-tube taking the sway and curve and wheel wiggle from your travel.

Yes, try any Buick—SPECIAL, SUPER or ROADMASTER—for comparison's sake.

Ride it where the road peters out to gravel lane or rutted path. Send it over cobbles and railroad crossings. See for yourself what Buick *ride-engineering* does for your comfort and handling ease. Note particularly the special liquid smoothness of your going with Dynaflow Drive.*

You can do all this by arrangement with your own Buick dealer.

He will gladly set up a no-obligation test ride for you—let you see for yourself why the Buick ride sets the standard for the industry—and why pricewise, too, there's no buy like Buick.

*Standard on ROADMASTER, optional at extra cost on SUPER and SPECIAL models.

BUICK *Division of* GENERAL MOTORS

Only BUICK has Dynaflow— and with it goes: **HIGHER-COMPRESSION** *Fireball valve-in-head power in three engines. (New F-263 engine in SUPER models.)* • **NEW-PATTERN STYLING,** *with* **MULTI-GUARD** *forefront, taper-through fenders, "double bubble" taillights* • **WIDE-ANGLE VISIBILITY,** *close-up road view both forward and back* • **TRAFFIC-HANDY SIZE,** *less over-all length for easier parking and garaging, short turning radius* • **EXTRA-WIDE SEATS** *cradled between the axles* • **SOFT BUICK RIDE,** *from all-coil springing, Safety-Ride rims, low-pressure tires, ride-steadying torque-tube* • **WIDE ARRAY OF MODELS** *with Body by Fisher.*

FOUR-WAY FOREFRONT

This rugged front end (1) sets the style note, (2) saves on repair costs—vertical bars are individually replaceable, (3) avoids "locking horns," (4) makes parking and garaging easier.

Your Key to Greater Value

WHATEVER YOUR PRICE RANGE

"Better buy Buick"

When better automobiles are built BUICK will build them

Who left the gate open?

LEAVING the gate open is a serious matter on the farm. Financial loss might well result, but this could be minor compared to other hazards that confront you each day.

Have you "closed the gate" by having the Extended Coverage Endorsement attached to your fire insurance policy? This endorsement will protect you if your livestock is killed by a vehicle while on the highway. Damage to your possessions by windstorm and hail also is covered.

Speaking of hail—have you arranged for adequate coverage on your growing crops?

Ask the America Fore Agent how to "close the gate." Let him explain the Extended Coverage Endorsement and give you complete information on the protection afforded under our Hail Policy for your growing crops.

THESE FIVE COMPANIES COMPOSE THE AMERICA FORE INSURANCE GROUP

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America Fore · INSURANCE GROUP ·

LOOK FOR THIS SEAL ON YOUR POLICIES

Farmer's Washington

[*From page 18*]

The National Council of Farmer Cooperatives thinks the farmer's ability to help himself through cooperatives has not been fully utilized in farm legislation. So the Council is busily developing principles it thinks should be in *any* future farm program changes.

Co-ops can help, the Council says, by better merchandising of surpluses. They can finance storage and handling facilities, which will help move harvests in a more orderly way. Co-ops can educate producers to market needs, to avoid overproduction of crops that can't be sold. And, by more banding together of producers, they can help avoid dumping big harvests on a buyers' market, for whatever the buyers choose to pay.

Dr. H. C. M. Case, head of the Department of Agricultural Economics at the University of Illinois, has proposed his own new farm program.

The two main features of Doctor Case's plan are (1) to provide price support floors under farm prices of a few major products, at 50 to 75 percent of parity, and (2) to provide direct payments to farmers based upon the cropping plan followed on his farm. The more legumes and soil-building crops, the higher the payments. Coupled with this plan, Doctor Case says, should be vigorous work to help operators of uneconomic-sized farm units make the necessary adjustments to improve their economic situations, and a concerted effort to encourage better diets for all our people.

Beck's plan. One of the most ambitious new plans reported was figured out by Axel J. Beck, chairman of the Republican National Committee's subcommittee on agriculture. There was hope, apparently, that it could be sold to the Republican party as an official Republican farm plan.

Under this plan, farmers would be given full parity price on all storable cash crops such as corn, wheat, cotton, soybeans, rice, and other grains. And there would be no production control until the August 15 supply was estimated to be at least 150 percent of the next year's national needs. Then the clamps would go on—marketing quotas would tell each farmer how many pounds or bushels he could sell from the next year's crops. The feed grains would work the same way, but there would be no controls at all on livestock, eggs, or milk products, even though these would be supported at full parity.

Obviously, with no controls, there might be some losses on the sale of price-supported meat, milk, and eggs. So there would be a processing tax of a dollar a hundred on all livestock slaughtered, to build a fund which would be used to pay such losses.

[*Turn to page 78*]

Illustration credits

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YOU know the soil conditions on your farm better than anyone else and, therefore, are most competent to judge which type of tractor tire will do the best job for you. It may be that you have found that an open center tire does your work best . . . or, you may favor a traction center for the same reason. You make the choice. *You can get a Champion performer in either tread design because Firestone builds both.*

The new and advanced Firestone Curved Bar Open Center is the only tire made with Power-Arc traction bars, tapered and curved for maximum pulling power . . . with flared bar openings, with no mud pockets at the shoulder . . . the only Open Center tire with twin Punch Protectors for longer body life.

If you prefer a Traction Center tire there is only one . . . the patented Traction Center Firestone Champion. There are 2,000,000 in use today and thousands of farmers the nation over will have no other type of tire. They have proved it to their own satisfaction.

Open Center or Traction Center? Again we say buy one of the Champions. They're both made by Firestone. Remember you don't have to shop around . . . call or see your Firestone Dealer or Store. They have both.

Listen to the Voice of Firestone every Monday evening over NBC

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ALWAYS BUY TIRES BUILT BY FIRESTONE, THE ORIGINATOR OF THE FIRST PNEUMATIC TRACTOR TIRE.

This bride didn't hint...

Alas, wedding gifts full of fancy glamour don't help a girl keep a house tidy. When a new husband dribbles ashes, she needs a handy Bissell Carpet Sweeper. So much easier than hooking up the vacuum each time!

This bride did...

She hinted hard . . . and got a Bissell Sweeper from her Cousin Bess. "Bless you, Bess!" says the bride, who uses her Bissell® every day for quick sweep-ups, saves her vacuum for periodic cleaning.

Only BISSELL has "BISCO-MATIC"* brush action

This miracle-action brush adjusts to any rug, with *no* pressure on the handle. Even gets dirt under beds and chairs, with easy swoops!

"Bisco-matic" Bissell Sweepers are priced as low as $6.45. Illustrated: The "Flight" at $9.45. Prices a little more in the West

BISSELL SWEEPERS

Bissell Carpet Sweeper Company
Grand Rapids 2, Michigan

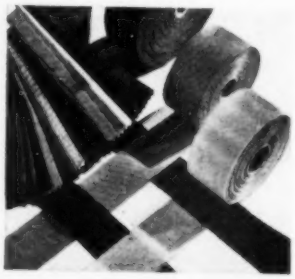
*Reg. U. S. Pat. Off. Bissell's full spring controlled brush.

What's new in homemaking

Seal jellies and jams against air, liquids, and odors in this styrene plastic container. The cover is of flexible polyethylene plastic and grips the rim of the container in two places. The cover peels off easily, even when just removed from the freezer or locker. Just pressing on the lid renews the seal. Liquid contents cannot leak or evaporate. The jellied contents slide out with a slight squeeze of the container.

Six-ounce container, two for 25 cents; 12-ounce container, 20 cents. Available in variety or department stores, or direct from the *F. & R. Lazarus Company, Columbus, Ohio.*

Colorful webbing, with unlimited possibilities, in cotton, plastic-coated cotton, or woven plastic is now available. It is sturdy and practical for chair seats, women's belts, folding screens, headboards for Hollywood beds, benches, folding screens of interlaced webbing, and even lamp shades. Ideal for indoor or outdoor use. Unusual effects can be created with the use of two colors. Priced



from 15 to 40 cents per yard. Samples may be ordered from *Webcraft, P. O. Box 51, Oxford, Massachusetts.*

Simplify egg cooking with an egg-cooking rack that fits into your saucepan. Six eggs can be moved into or out of

hot water quickly and safely at one time. Eggs cook upright in this all-aluminum kitchen accessory, leaving yolks in the center, making more attractive hard-cooked eggs for salads. Simple instructions on how to prepare both soft- and hard-cooked eggs are printed on the ends of the package. Available in hardware, department, and variety stores at 39 cents. *West Bend Aluminum Company, West Bend, Wisconsin.*

Ladder-grip is a simple gimmick that holds pails and pans securely to any convenient step on a stepladder. It will hold a bucket for washing walls or windows, or

a paint pail or can of any size. Holds any crimp-edged pan as a tool tray. Holds up to 25 pounds. Ladder with pail attached can be moved with little danger of spilling the contents of the pail. Speeds work, lessens back-bending and lifting. Available at most hardware and department stores. The price is $1.19. *Die-Co Company, Peekskill, New York.* **END**

"I turned my back on backaches when I got my Ironrite!"

says **Mrs. BELMONT MURRAY**
WEST NYACK, NEW YORK

1 "**I wish I, personally,** could tell all women how it feels to quit back-breaking hand ironing forever!

"Any woman who has ever ironed a big wash by hand can appreciate how I used to feel. Big ironings meant big backaches, not to mention fatigue in the arms and shoulders and behind the knees. Looking ahead, I could see this dreary routine eventually taking its toll of my health and energy.

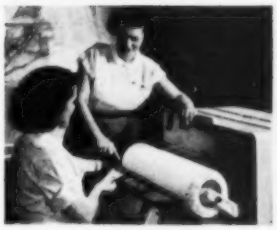
"But then I got my Ironrite! I soon discovered that, because Ironrite *irons anything you can wash,* it could relieve me completely of *all* hand ironing, even the most delicate work. Now, thanks to this marvelous machine, I've turned my back on ironing-day backaches for all time!

THREE BEAUTIFUL IRONRITE MODELS

MODEL 80. New, improved open-model Ironrite Automatic Ironer for the home laundry. Attractively finished in white enamel. Has Ironrite's *exclusive* "two open ends," Do-all ironing points on both ends, and other famous Ironrite features.

MODEL 85. Beautiful, closed-top Ironrite designed for modern kitchen or laundry. Finished in lustrous, baked white enamel. Opened, hood provides a shelf for finished ironing; closed, it's worktop area.

MODEL 88. Smart, distinctively styled Ironrite with gorgeous hardwood top, built and finished like fine furniture. Harmonizes with your furniture. Choice of rich brown mahogany finish or lustrous honey blonde finish.



2 "**Learning** to iron on an Ironrite is far easier than you'd expect, and is actually fun! Free, pleasant instructions by the Ironrite Home Service Advisor helped me learn how to iron even the most complicated pieces in no time at all!

3 "**You'd think** doing a shirt by machine would be hard. But on my Ironrite it's less than a 4-minute job! And, thanks to its *two completely usable open ends,* there are far fewer ironing motions on an Ironrite than on ordinary ironers.

Ironrite

For the name of the nearest Ironrite dealer, see yellow pages of your telephone directory

IRONRITE INC., MT. CLEMENS, MICHIGAN
EXCLUSIVE MANUFACTURERS OF IRONERS SINCE 1921

4 "**Children's** clothes—always a chore to do by hand ironing—are a breeze on an Ironrite. So are ruffled curtains. Ironrite's handy *Do-all ironing points,* set in each end of the ironing shoe, get into every tuck and gather!

5 "**If you, too,** want to turn your back on ironing-day backaches, be sure to look up your local Ironrite dealer and ask about this miracle ironer. He'll be only too happy to give you a complete demonstration. See him today!"

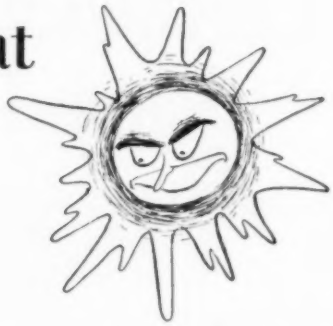
Pick the Thoroughbred of Pipe Tobaccos

LOOK FOR THE RED-COATED RIDER ON THE KENTUCKY THOROUGHBRED

You'll never know how satisfying a pipe can be until you light up with Kentucky Club. It's so smooth and mild—has such a grand taste and aroma. Choice white Burley—blended as only Kentucky Club experts know how—make it the thoroughbred of pipe tobaccos. Buy a tin today.

Produced by the Makers of Famous
MAIL POUCH TOBACCO
Wheeling, West Virginia

How to live with the sun and the heat



By Fay Sarles

The fellow who says "It's hot!" isn't telling you a thing. You *know* it. Your concern is how to live with the heat comfortably—without serious consequences—and still get your daily tasks done.

It is while doing those daily tasks during the summer that many Americans suffer in some degree from the heat. The consequences can be merely discomfort or as severe as death. These consequences are better known to us as heat exhaustion, sunstroke (and heatstroke), heat cramps, and sunburn. Each of the above conditions has different signs and symptoms; each varies in treatment required.

Let us take heat exhaustion first. This is due mainly to perspiring in such great amounts that the body is drained of most of its water and salt. It is not necessarily related to physical exertion. It usually comes suddenly with marked weaknesses, dizziness, nausea, or vomiting. If the person is standing, he may reel. His skin will be pale and moist, his pulse weak, breathing rapid, perspiration profuse.

For heat exhaustion, do this: Have the person lie down, if possible, in a cool place where the air is circulating freely. Loosen his clothing. If the patient is chilly, no matter how hot the day, keep him warm with a hot water bottle or blanket. If he is conscious, give him sips of salt water (1 teaspoon of salt to 1 pint of water) and a stimulant (tea, coffee, or aromatic spirits of ammonia in this proportion: ½ teaspoon in ½ glass of water). If the patient does not improve quickly, call a doctor.

Sunstroke and heatstroke have the same symptoms and effects but sunstroke comes from *exposure to the sun* and heatstroke comes from *exposure to extreme indoor heat*. Both are far more serious than heat exhaustion and require prompt action to save the person's life. Since cause and treatment of sunstroke and heatstroke are the same, we shall refer henceforth only to sunstroke. It may occur with surprising suddenness; it may be preceded by acute headache, dizziness, and nausea, rapidly followed by unconsciousness. The skin of sunstroke patients is dry and hot, the face flushed, the pulse rapid, and the temperature high.

For sunstroke, do this: Call a physician at once. While waiting for him to arrive, take the patient to a cool place where he can lie down with his head slightly raised. Remove as much of his clothing as possible. Put an ice bag or very cold cloths on his head. Then try to reduce his temperature by sponging his body with cool (not iced) water or by wrapping him in a sheet and spraying, or gently pouring, cool water over him every few minutes. Do not give stimulants. After the patient becomes conscious, give him cool water to drink.

[*Turn to page 80*

Do's and Don'ts for hot weather

Do as much of your work as possible in the coolest hours of the day. The sun's rays are most intense in May, June, July, and August between 10 a.m. and 4 p.m.

Don't stay in the sunlight too long at a time. Take time off now and then to rest in the shade.

Do keep your head covered when working in the sun. The sun's rays are most harmful when falling directly on the head.

Do wear light, loose clothing.

Don't overeat. Choose easily digested foods. Leave out fats and cut down on meats, eggs, and other proteins which serve to "steam up" the body. Fruit juices are helpful. Go light on tea, coffee, tobacco, and alcoholic drinks.

Do try to create a breeze by open windows or fans when working in intense indoor heat.

Do drink plenty of cold (not iced) water. From 8 to 12 or 15 glasses a day may be needed to replace the fluid lost through perspiration.

Do use plenty of salt with your food and add it to your drinking water, unless your physician advises otherwise. Or, if you prefer, use salt tablets. Extra salt is needed to replace what is lost in perspiration.

Don't overdo in any way. Keep in good condition with healthful living habits. Get plenty of rest and sleep, avoid too much physical activity and fatigue.

Don't worry. Relax frequently and completely.

1ST At the Finish

WITH THE WORLD'S LARGEST SELLER !

NEW BENDIX RECORD SET

Last September, Joe DeBona won coveted Bendix Trophy at Cleveland Air Races with average speed of 470.136 mph over 2010-mile course. His engine was protected by Mobiloil!

72 Famous Farm Machine Builders Endorse It!

Farmers everywhere know it pays to change tractor engine oil regularly—refill with fresh Mobiloil for unsurpassed *triple-action.*

Mobiloil is *anti-acid, detergent,* has *high V. I.*—all 3 modern oil qualities that mean correct lubrication, full protection, maximum economy!

Call in Your Mobilgas-Mobiloil Man

Mobiloil

Get Famous Mobilgrease and Mobilube Gear Oil, too!

SOCONY-VACUUM OIL COMPANY, INC., 26 Broadway, New York 4, N. Y. and Affiliates: MAGNOLIA PETROLEUM CO., Dallas, GENERAL PETROLEUM CORP., Los Angeles

Now Only $84.50*

for the World's Finest Sink...

STAINLESS STEEL by ELKAY

*Suggested Retail Price, 54" Model (Illustrated) without fittings, F. O. B. Chicago

...not a special offer

...not a lower quality

STILL THE SAME FAMOUS, FINEST, FLAWLESS

STAINLESS STEEL SINK...

at reduced prices resulting from improved production—growing demand

Now you can enjoy every advantage of stainless steel in your kitchen at prices so amazingly low you'll never consider anything less than Lustertone. Lustertone—the only sink guaranteed to outlast your home—is unrivaled for beauty, sanitation and efficiency. Lustertone never needs scouring, can't chip, flake or wear through and comes in a wide range of stock sizes or custom-built . . . and always without a visible seam, joint or crevice.

Look how one family modernized and beautified their kitchen!

Mrs. C. B.* says: "We chose Lustertone because we wanted something to withstand heavy duty in a farm kitchen (milk pails, etc.)" Well, she got it, and beauty, too!

*Name available upon request.

ELKAY MANUFACTURING COMPANY

Dept. G-10

1874 So. 54th Ave.

Chicago 50

☐ Please send new low prices and free catalog showing various type kitchens.

☐ Where can I see a Lustertone Sink?

☐ I am planning to build ☐ To remodel

Name_____

Address_____

City_____ State_____

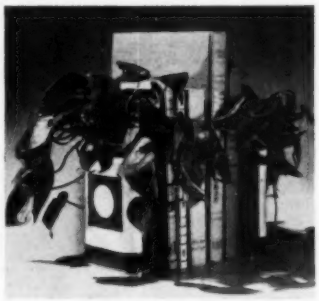
all around *the* house®

Here are tips to help you save yourself some time, steps, and work

● Keep hot-pan holders at your finger tips by hanging them at the side of the stove. I use suction cups with hooks attached (as sold for carrying clothes in autos). Moisten the rubber and mount the hooks on the burner side (opposite the oven end). This arrangement saves hunting and bending; besides, bright holders add color.—*Mrs. A. T., Iowa.*

● When one of my ready-made dresses wears out, I often salvage the buckle and re-cover it with the material of a dress I am sewing. I pry the buckle apart and use the old covering as a pattern for cutting the new one. Then I baste the new covering on or hold it over frame as buckle fits together again.—*Mrs. C. S., Missouri.*

● It's easy to make rectangular wax or salad-oil cans into attractive book ends, as shown below. Try hand-painting a



pair, or cover them with paper and add a gay decal. Then fill the cans with earth, add a moss rose, philodendron, or ivy plant.—*Miss N. B., North Dakota.*

● Make metal porch chairs more comfortable with shock absorbers cut from old garden hose. Cut a piece the length of each runner, split one side, and slip the hose around the runner. You'll find it keeps the chairs from sliding, prevents rust and paint marks.—*Mrs. W. S., Wisconsin.*

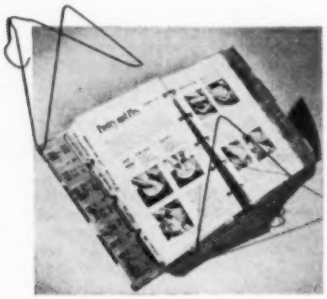
● I use art corners in my snapshot album and place the negative of each snapshot directly under the print. This saves hunting for the negative when we want a reprint made.—*Mrs. A. T., Minnesota.*

● When chicken leg markers are inserted into the handles of dish mops, kitchen brushes, and fly swatters, they make excellent flexible rings for hanging up these items.—*Mrs. R. D., Nebraska.*

● When washing a bedspread, rug, or slipcover with long fringe, braid the fringe, taking as much into each braid as possible without straining the fabric. Fasten the end of each braid with a rubber band before putting the article in the washing machine to wash. When it is almost dry, remove the rubber bands and unbraid the fringe. You will find the fringe will finish drying without tangling. —*Mrs. J. H., Minnesota.*

● **I've found that my crochet thread won't tangle when it's not in use if I fasten the ends with a bit of transparent tape.—*Mrs. C. S., Iowa.***

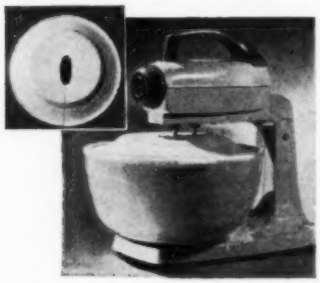
● A plain coat hanger makes the handiest recipe-book holder. Simply pull it out diamond shape, and bend it into the form illustrated, turning the hook under



to serve as the stand. Insert the open cook book and place the holder before you on your kitchen work counter. This keeps the book easy to use as you cook, yet conveniently up off the work surface. —*Mrs. F. P., Ohio.*

● **Attach a used rubber jar ring to the end of the string on your toddler's favorite toy. This will give him a handle that is both easy to see and to grasp—makes his plaything much more fun.—*Mrs. W. J., Minnesota.***

● When using the electric mixer for something that spatters, make a hole in the center of a paper plate, large enough for the beaters. Cut a slot in the plate from



the edge to the hole, and place the plate over the bowl, as illustrated. It will serve as an excellent cover to catch the spatters. If the bowl must rotate, lift the plate slightly.—*Mrs. C. G., Wisconsin.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

Can YOU keep up with baby?

1. How soon should baby react to noise?

Within a few days after birth, your baby will jump at loud noises, like a dropped tray. Other senses are developing, too: if baby's skin is uncomfortable from chafing or "urine irritation," he'll let you know with wails. After every bath, and at diaper changes, smooth on pure, gentle Johnson's Baby Oil, to help keep skin protected.

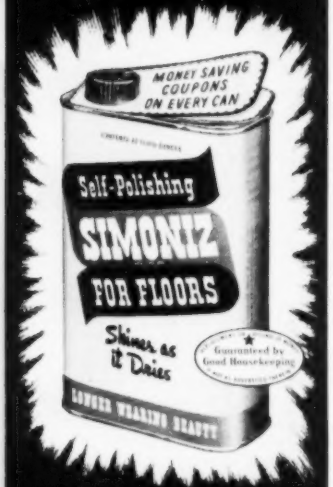
2. When will your baby recognize you?

At about three months, baby will smile and wave his arms in welcome at your approach. He'll particularly like to see you coming with that can of silky-soft Johnson's Baby Powder! Feels so good on his delicate skin—helps keep prickly irritations away.

3. At what age should baby double his birth weight?

Normally, by five months—but like all phases of development, this varies from baby to baby. If yours seems slow, let your doctor reassure you. Speak to him, too, if skin-care problems arise. They'll be few and far between if you just help keep baby smooth-skinned with Johnson's Baby Products! Made specially to agree with baby skin—recommended by more doctors than all other brands put together!

Get the world's
FINEST
Self-Polishing
WAX
for your floors!



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How one farm church paid off its debt

By H. O. Brunson

If you ask the members of Good Hope congregation how to pay off the cost of remodeling your church, they'll tell you to hold an old-fashioned farm auction.

This rural Methodist church in Kossuth County, Iowa, put on a church benefit at which over $70,000 worth of goods and livestock was offered for sale. The result was so gratifying that now the church, which started five years ago with a "God's Acre" plan for raising funds, has paid off its indebtedness. Also, it has been remodeled into a community center as well as a place of worship.

The idea was born the day a church committee pitched in to help the new minister, the Reverend Wesley Frank, unload his household goods. The Reverend Mr. Frank, who has been a farm pastor for 23 years, had brought along a dozen pullets. But he found the chicken coop filled with surplus lumber, doors, and windows which were left over from the church remodeling.

Bringing out an armload of lumber, one of the men asked, "Why not have a sale and dispose of this surplus?" Someone else suggested they ask the church members for donations of livestock to make it a bigger sale. That conversation led to a general church meeting where plans for the sale were made.

The backbone of the planning was done by five farmer-members of the church, with their minister. Leonard Dittmer, who manages a herd of Holstein cows on his place near the church, was chairman. One member suggested that they solicit merchandise from dealers in the nearby towns of Algona and Burt, to be sold on a commission basis. This idea later proved very profitable.

For two weeks prior to the sale day, these five men went about their community soliciting donations and publicizing the sale.

Everyone responded. One church member offered an electric cream separator. A farm homemaker gave a used coal cookstove. There was a prize Hereford steer, five gallons of house paint, a new half-ton pickup truck, and a case of soap powder. And so it went—hundreds and hundreds of items, little and big, from turkeys to tractors. Some were given outright and some on a percentage basis.

When dealers in nearby towns were solicited, they offered dozens of new and used appliances, trucks, cars, and farm machines on commission.

Commission rates for the church's share were:

Items worth up to $200, 15 percent.
$200 to $800, 10 percent.
$800 and up, 7½ percent.

Percentage items accounted for almost half the day's profits.

How does the work get done on a farm sale like this?

"The important thing," says the Reverend Mr. Frank, "is to give everyone a place on a committee. This makes for a spirit of cooperation that lightens the hard work necessary for such a project."

What committees do you need? Well,

↑ *Turn to page 81*

Going, going, gone! Sold to the man in the tan leather jacket! A well-organized farm church auction is exciting to the entire countryside. And it's an easy way to make money

No grass grows under HIS feet!

HE'S FEELING HIS CHEERIOS!

... a ready-to-eat OAT CEREAL with a whale of a lot of GO power!

Betty Crocker of General Mills, America's best-known food authority, says: "A nourishing breakfast that starts with Cheerios, milk and fruit is exactly what you need to help brighten your day and lighten your step."

Cheerios are so appetizing—like crunchy little doughnuts with a wonderful fresh toasted-oat flavor. Get a package today.

THE OAT CEREAL THAT NEEDS NO COOKING!

If you were to buy a car for its beauty alone you couldn't make a happier choice than a Ford! For again in 1950, New York's famed Fashion Academy has named it "Fashion Car of the Year"!

But there's more than beauty to recommend it —*much more!* "Test Drive" it and get the "feel" of its amazingly quiet and smooth new V-8 engine! "Test Drive" it for the "feel" of its 35% easier-acting King Size Brakes! "Test Drive" it for the solid comfort of its Mid Ship Ride—its big car roadability!

We believe you'll agree that the '50 Ford is the one fine car in the low-price field. And it's economical to own! Why not talk to your Ford dealer, today?

"TEST DRIVE" A '50 FORD

You'll FEEL the difference!

Tax-free margarine– is it unfair to cows?

Some folks think cows are to be replaced, now that federal margarine taxes are off. Don't be alarmed, says the author—you'll hardly know the difference. Adjustments should be small, painless

By Don Paarlberg
Purdue University

What happens when the 10-cent federal tax on colored margarine is removed? Many dairymen consider tax removal an insult to the "foster mother of the human race" and a terrible blow to the dairy industry. "The complete collapse of the dairy industry in 10 years" has been predicted.

Soybean growers, on the other hand, are enthusiastic. Some persons say the prices of butter and margarine will fall 10 cents a pound, others say the prices will fall less than 10 cents, and still others say they will fall more. The dairy business has had this support for more than half a century; what happens when you pull out the props?

One opinion is that tax repeal will have only a minor effect on agriculture, or on the consumer. Probably there will be a flurry at first and some wild price gyrations, similar to those which occurred when O.P.A. controls were removed and for a time nobody knew what farm products were worth. But when conditions get settled down, the changes will be rather small. After all, *butter is the lowest-paying outlet for milk*, and has been taking a declining share of our supply. In 1948, butter took only 26 percent of our milk.

Dairymen producing milk for fluid use will notice little effect, and fluid milk in recent years has taken about half the supply.

Some producers of milk or cream for manufactured use will continue in production at a slightly lower price.

Some producers of milk or cream for butter will convert to milk for fluid use as the population increases and per capita use of milk goes up. This trend has already been under way for years.

Some farmers with a few cows, who had been selling milk or cream for butter, will change over to beef cattle or to hogs—and wonder why they ever got up so early in the morning before.

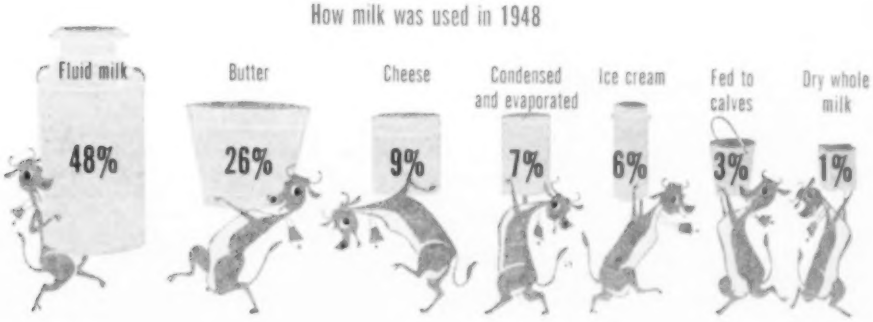
Other farmers, or these same farmers, might increase the acreage of soybeans, while still using present seeding and harvesting equipment.

Consumers will find that the price of butter and margarine will drop only a little, and that their consumption of butter and margarine won't change much. In short, adjustments will be rather slight and will be made rather easily.

What are the facts which lead to these beliefs?

In the first place, there still are 16 states which prohibit the sale of colored margarine. In these states live 40 percent of the people, unaffected by repeal of the federal tax. In addition to these 16 states, two states tax colored margarine. And there are numerous taxes and [*Turn to page 76*

How milk was used in 1948



A junior herd sire

The story of

These rugged cows, just turned out of barnlot into early-spring pasture, are a living example of what careful inbreeding can do

Whoever says that continuous inbreeding will wreck a herd should stop at the Neal farm in Linn County, Iowa. Burt Neal, now in partnership with his son, Gordon, has been doing it for 38 years. No outside blood has been added, and it's estimated that the intensity of inbreeding now averages about 34 percent.

Instead of finding two-headed freaks or a collection of infertile, degenerate cows, you'll see hardy, large-framed females that average a 97-percent calf crop; you'll find a group of individuals whose uniformity approaches the proverbial two peas in a pod.

The whole thing started back in 1912 when Burt Neal and his father attended a Shorthorn sale—and came away with something that cost them twice as much as they had expected to pay. The bull calf they bought has been worth many times the $400 that he cost; for, even today, an estimated 47 percent of the herd's genetic make-up is derived from this sire.

Named Sultan's Banner, he was a grandson of the noted Whitehall Sultan. The desirable qualities of Sultan's Banner—short-leggedness, blockiness, and gaining ability—are unmistakably stamped on every calf on the place. These characteristics have become so firmly fixed, through the process of inbreeding, that they have been transmitted faithfully from one generation to the next.

Bad traits popped up, of course, during the 38 years.

a beef herd

inbred for 38 years

By C. E. Hughes

Calves quite often are so nearly alike that the Neals can scarcely tell them apart. Holding calves (left to right) are Tommy Neal; his father, Gordon; and his grandfather, Burt

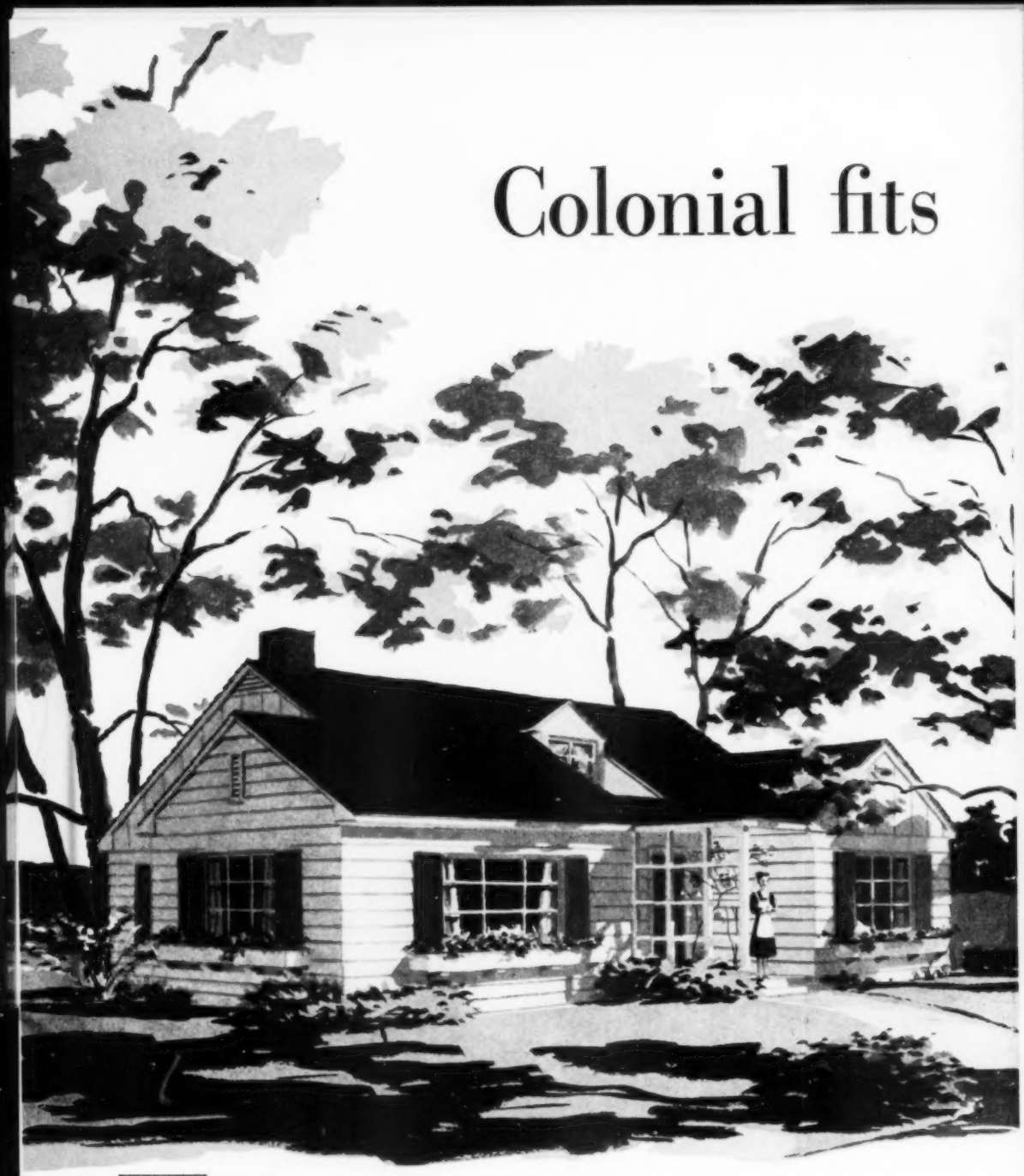
Steers like these might have been herd sires, had they measured up to the Neals' exacting standards. Each year, several bull calves are selected, tested, and most of them rejected

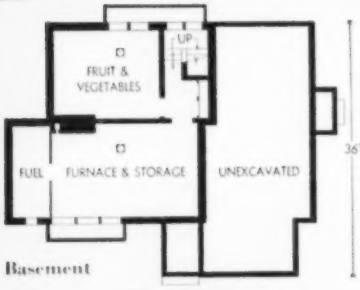
But the practiced eye of a stockman detected and eliminated those difficulties.

For example, the Neal herd for a time was troubled with a high tail setting. By changing to another bull, also produced in the herd, this fault was overcome. Still later, they found that their cattle were not so well filled in the loin as might be desired, and they corrected that in one generation.

And, somewhere along the line, the herd ran into a spell of barrenness. The Neals changed bulls of their own breeding, used commercial fertilizer on the soil, and gave the cows a specially prepared mineral mix. One or a combination of these measures put an end to the sterility problem. [*Turn to page 134*

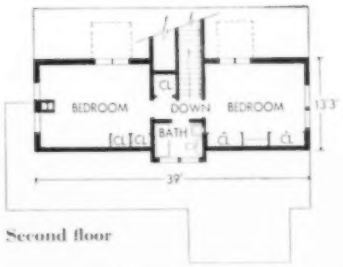
Colonial fits





Basement

First floor

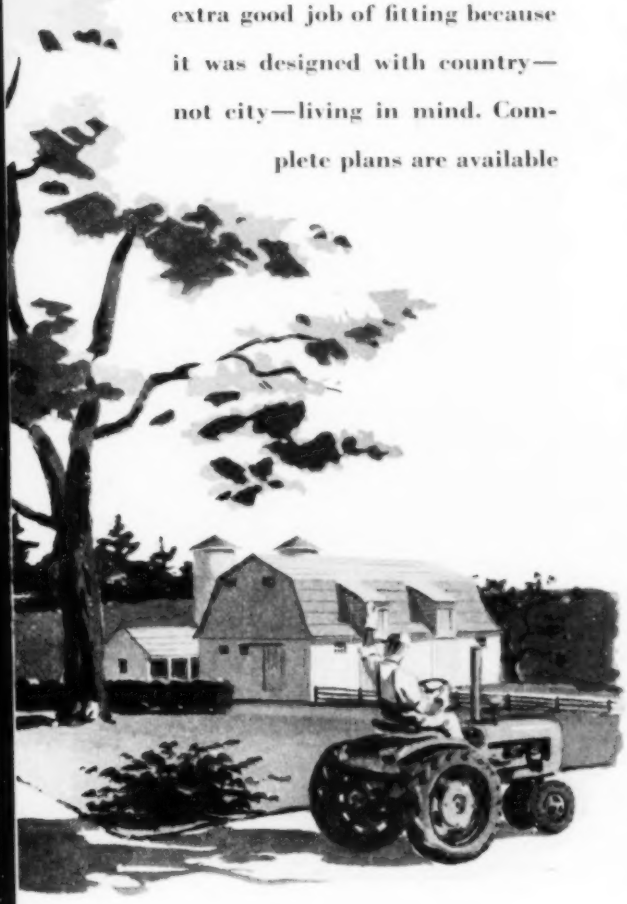


Second floor

the farm

Designed by H. E. Wiehers

And this 7-room Colonial does an extra good job of fitting because it was designed with country—not city—living in mind. Complete plans are available



Back view

Here's a handsome, worksaving farmhouse with an especial appeal for farm men. The plans make sense to them because: (a) The house can be heated by either coal, fuel oil, or gas with a minimum of furnace work or with none at all. (b) There's a special work-clothes closet off the rear hall and a full bathroom that can be reached without tramping through the rest of the house. (c) There are 431 square feet of bedroom and bath space upstairs where a man can catch a little privacy and sleep without being run over or talked over.

But Successful Home No. S2006 is certainly not for men only. Just take a look at that handy kitchen with a full view of the drive and yards, and that workroom right across the hall. To say nothing of the 12'x14'6" dining room with the built-in buffet. As a matter of fact, each room in this house has access to built-in and closet storage aplenty. So it's very definitely a family dwelling.

The over-all square footage runs at just about 2,600, not counting the unexcavated portions of the basement division. There's not a bit of waste space nor waste materials.

Of course, the floor plans incorporate what we of the *Successful Farming* Building Department call "The Big Three." These are the three points that distinguish a farm home from a city home, and they are: (1) A front entrance facing the drive from the highway rather than the faraway highway itself; (2) a central hall off the back door so that busy feet coming in from the barnyard won't cause too much trouble; and (3) a workroom to take the really messy jobs away from the kitchen.

These three big points will apply to any house remodeling you may be planning as well as to building new. They have been worked out over some 20 years of farmhouse design with the idea in mind that farm families spend more time in and around their homes and use them harder than do city families. Don't you agree to that?

All right, then, you'll find dozens more examples of cost- and spacesaving planning in this Successful Home No. S2006, from the upstairs closet storages right down to the 1,300 cubic feet of shelf and bin space in the basement fruitroom.

Now here's how to get the plans: A set of working drawings, a list of materials, and a specifications form will be sent you postpaid for only $2.50. When ordering, please address *Successful Farming*, 3026 Meredith Building, Des Moines 3, Iowa. And be sure to mention this Colonial house plan by its number—S2006.

He makes money from

Wondering what to do with the land you're taking out of corn? How to make poorer land pay? John Stotzer has a whole farm full of hills, and each one works for him night and day. Good grass, good cows, and a smart way of merchandising his milk as cheese has meant a good life for the Stotzers. His ideas are well worth copying

By Delmer E. Groves

Swiss-born John Stotzer knew just what to do with this

It's easy to find John Stotzer's farm.

Just drive south into the hills from little Mineral City, Ohio. As soon as the hills turn from drab browns and grays to a healthy, deep green, turn left; you've arrived.

Once there, it will pay you to look around. John has the answers to questions many of us are facing now for the first time. He knows how to get a lot of milk per acre from grass. And he knows how to sell that milk direct to consumers—bringing all the housewife's dollar back to the farm.

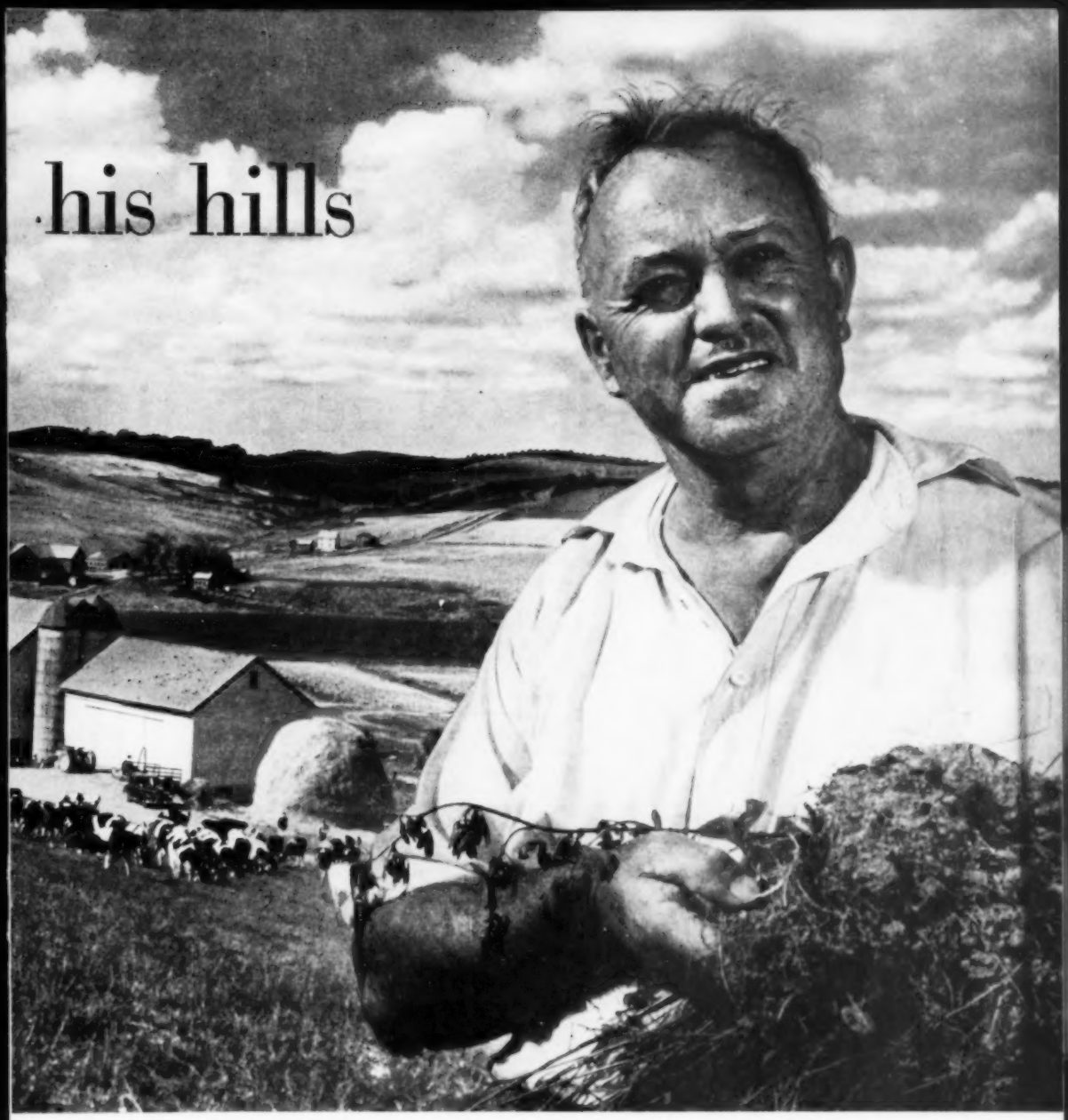
Good grassland management keeps all the 300 Stotzer acres in good tilth and high production. There are only about three acres of "permanent" pasture on the farm. The rest of the farm is used in regular rotation. The meadows provide the pasture.

"Grass is the foundation of all farming" is the firm opinion of Stotzer. And his crop rotation backs up this belief. A single rotation on a field may run as long as 14 years. This would be 1 year of corn, 1 year of wheat, and from 5 to 12 years in a meadow mixture of alfalfa, bromegrass, and clover. John wants a good stand of alfalfa in his mixtures.

It's not unusual for a field to still have that good stand of alfalfa at the end of 12 years. He sows northwestern Grimm. When Ohio Extension Agronomist Earl Jones first saw the Stotzer legume stands, he asked for soil samples to see if he could find out why the stands lived so long.

Each acre of corn ground gets 300 to 350 pounds of a commercial fertilizer. As corn always is planted on a heavy sod, yields are high. It's not unusual to get 80 to 100 bushels to the acre.

No ground is left without cover over winter. The wheat generally gets in the ground a little late, because Stotzer has to get the corn off the wheat ground first. Each time a piece goes to wheat, it gets around 2 tons of lime to the acre and 400 pounds of 2-12-6 fertilizer. Where there isn't danger of lodging, the wheat is top-dressed with manure. The balance of the manure made by the 80 head of Holsteins goes to the meadows. Wheat



rolling Ohio land. He tied it down with many-rooted grasses and legumes, which pay off better than grain ever could

has yielded over 36 bushels per acre for the past eight years. One year it was 40.

When John plows a field, all the furrows are thrown up the hill. This helps retain rain water. He recalls one year when half of a land was turned down the hill. He could tell right to the corn row where the furrow was thrown uphill—the corn below it was poorer.

This management results in heavy hay yields. Several times, stands have been so heavy they clogged the tractor mower. Grass silage is made from the first crop. It took only about 10 acres last year to fill two silos, one 12x40 feet, and the other 10x40 feet.

Part of the first hay crop is pastured off. The cattle are rotated, so they don't spend more than a couple of weeks on one piece of meadow. Hay needed for the 80 head of Holsteins is cut from the second crop. Every year hay and pasture is so abundant that the cattle can't eat it all. Grass farming pays dividends both in land improvement and milk production for John Stotzer.

A native of Canton Berne, in the dairying region of Switzerland, Mr. Stotzer came to the United States as a lad of 16. He was used to hills. But he still had a lot to learn—and learned it the hard way.

With hard work and frugal Swiss living, John and his family saved enough money to make the down payment on a large dairy farm in Portage County, Ohio. But the story was not all success—a few years later Bang's disease, that No. 1 enemy of the dairyman, [*Turn to page 102*

Planning makes for foolproof decorating

Live with a "sample" of your plans for several weeks before redecorating your rooms. It's the best way to avoid mistakes

By Kay Scott Jones

The secret of making a room as attractive as you visualize it in your mind's eye lies in planning with samples. Not just little color swatches, but large samples of the actual fabrics and wallpapers you want to use. The photographs at right indicate the size of samples we mean.

This way you can actually "see" your room as it will look when completed. With such samples tacked on the walls, you can easily spot too much of one color or too bold a pattern. When something displeases you, change the samples until you're pleased. It won't cost a thing!

Most department stores or furniture stores are willing to lend or rent fabrics, carpet pieces, and single rolls of wallpaper to homemakers who want to live with samples for a while before redecorating. Take advantage of this service. See list of stores cooperating with our Home Planning Service on page 120.

Assemble your samples at home on one wall. Hang the drapery fabrics on a rod. Tack the wallpaper roll up alongside it. Lay your carpet sample on the floor. Then arrange one or two pieces of furniture in front of the scheme. If you plan to slipcover some furniture, drape the samples of the fabrics over the pieces to be covered. Now you'll have an over-all picture of the end result.

Try to arrange your colors and fabrics in the approximate proportions in which they'll be used in the room. The wall color, for example, occupies at least a third of a room, so allow the sample of this paper to occupy at least a third of the "sample room." Carpet will take up another third; furniture and draperies will provide colors for the remaining third.

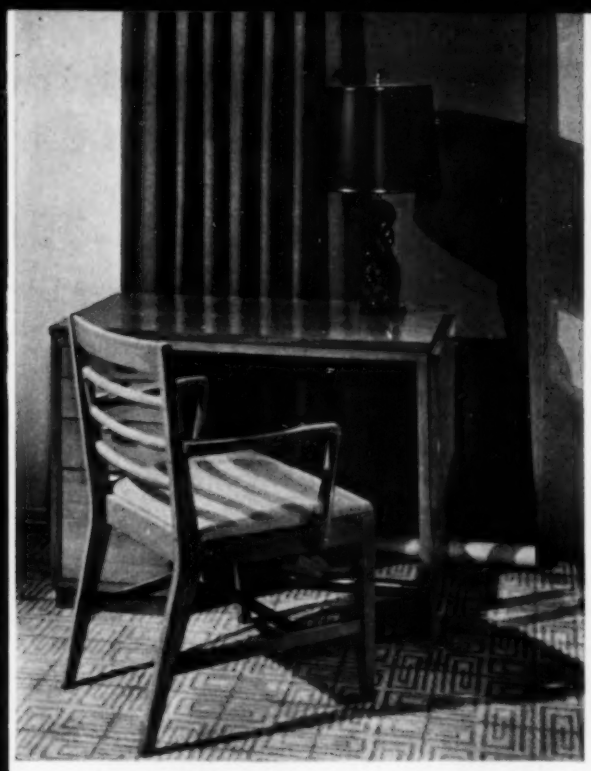
Study the room schemes shown on the opposite page for ideas on how to combine furniture styles, fabrics, and patterns that go together.

On the upper left is a scheme for families who like Modern, but who prefer it on the conservative side. Which is to say, they like each furniture piece to have a specific function; they prefer handsome, simple lines and subdued, quiet colors. To do a smart decorating job for this type family means selecting colors which blend quietly. The simple, geometric patterned carpet, new on the market, was designed with such a room in mind.

At the upper right is a scheme planned for the Early American-type room. The keynote here is pure, definite colors (usually cool) used to set off the warm tones of cherry, pine, or maple furniture. The patterns you choose for such a room should be crisp and dainty, definitely homespun in appearance. Note how the carpet in the grouping carries the soft, warm, homespun look.

A scheme for the Traditional room is shown on the lower left. Here, deep colors and rich-looking fabrics are necessary to accent the elegance of mahogany furniture. The carpet is an excellent basic type that blends with formal or informal furnishings.

The young in heart who like Modern furniture, brightness, and informality demand schemes like the one at the lower right. Such bold patterns and bright colors are a definite part of informal Modern rooms. The carpet is one of several new patterns designed for Modern decorating.



If you like Modern, but prefer it on the conservative side, here's one scheme. The smartness above is achieved by using (1) a simple geometric pattern—note carpet; (2) quiet, related colors: beige, cocoa, yellow; and (3) an accent color, turquoise

The Early American feeling in this setting is achieved by using (1) chintz in cool, clear colors to set off the warm tones of (2) cherry furniture; (3) a dainty pattern in wallpaper; and (4) carpeting that reflects a warm, homespun or handmade look

If your furniture is Traditional mahogany, use deep and rich colors. Here we've used a nice balance of warm red and cool greens, plus gray with gold accent. Use the bold-patterned wallpaper on two walls only, with plain green on the other two

If you like to live informally with Modern furniture, use big splashes of bright color and bold patterns. Here we've used a carpet designed for Modern rooms, a bold wallpaper for one wall (others gray-green), bright coral and yellow fabrics. END

Mrs. Donald Carlson's
Strawberry Ballymaloe

Here's a dessert from the heart of Ireland to you. You'll not find one more delicious to eat nor easier to make. Recipe for this treat is on page 71

By Margaret Hegerfeld

"Once upon a time . . ." could be the beginning of the story of Strawberry Ballymaloe. And Ballymaloe itself is a cook's dream—a failureproof cake, delightfully easy to make, taking only 12 minutes to bake. When topped with fresh strawberries, it is a dessert fit for kings and queens.

The recipe was submitted by one of our good reader friends, Mrs. Donald Carlson, who lives on a farm near Dorchester, Wisconsin. We soon discovered that Mrs. Carlson had a way with words as well as recipes. Here is what she told us about Strawberry Ballymaloe:

"The story behind it stems from the fact that I am not an American. I came to this country four years ago as one of the first shipload of G.I. brides brought over from England by the *Queen Mary* in February of 1946. Already I feel as if I had lived here for a long time.

"As a schoolgirl I was frequently taken by my parents to Ireland for summer holidays, and latterly, we used to go to County Cork in southern Ireland. 'Ballymaloe House' and [*Turn to page 70*

The first step, as Mrs. Donald Carlson demonstrates, is the sifting together of dry ingredients—flour, baking powder, and salt

Second step, and this is important, is to beat the eggs and sugar together until the mixture forms soft peaks when dropped from a spoon

Third step is careful, gradual folding in of the dry ingredients. Then batter is poured into three waxed-paper-lined, greased layer pans

Cake is baked at 425° for 12 minutes, removed from pans, cooled. Strawberries are added for luscious dessert at left

Yes, you can grow

cover crops in corn

By Richard Crabb

An increasing number of good Cornbelt farmers regularly seed cover crops in corn. Soils and crops scientists agree that widespread use of cover crops in corn stands as one of the great future opportunities for corn country farmers. Cover crops are a paying proposition from several angles. Regular use of cover crops on corn land points to getting your grain and forage requirements from fewer acres with less work and more profit.

A few farmers in practically all of our high corn-production states from Ohio to Nebraska already are proving it. Take the case of John Wilson, a pleasant, soft-spoken, modest dairy farmer who farms a couple of hundred rolling acres just northwest of Mukwonago, Wisconsin.

"My father," explains Wilson, "used to sow rye in corn to get additional pasture in the late fall and early spring. We still get a good many extra cans of milk from the cover crops we seed in our corn, but that's just one of the benefits. Our main purpose is to get our fields well covered to prevent soil erosion in the fall, winter, and spring months.

"Our pasture and timberland is well covered and not subject to much erosion, but on farms like ours from one-third to two-thirds of our land is in corn. It is generally our best ground. It just looks like good sense to us to get it under a protective cover from October to May, when so much soil washing is done.

"Then we think having a cover crop to plow down is almost as important as soil-saving. The extra organic matter soaks up those hard late-spring and summer rains, tiding our crops over the dry spells. That's water which might run off and carry more of our soil away with it," adds John Wilson.

Cover crops in corn already are becoming well established in important Eastern corn-growing areas such as southeastern Pennsylvania. Farmers generally use ryegrass or barley, and they seed them in the same way and for the same reasons that John Wilson plants them in Wisconsin.

K. G. Ricketts, who farms in the heart of the Cornbelt along the Fox River south of Aurora, Illinois, sows a cover crop in his corn for an important additional reason. He has one 15-acre field where the soil is on the mucky side and where he and his father have found it unsuited to raising small grain or forage crops.

"The result," he reports, "is that we've been planting a sweet clover cover crop and following corn with corn year after year. We've taken 13 corn crops off this field since 1936, and I figure the cover crop carries just about half the load of maintaining the nitrogen and organic matter to give us good, big yields continuously. I would not recommend the practice of continuous corn for general use, but it seems to be working [*Turn to page 94*

This is how you seed them . . .

Some folks are experimenting with detasseling machines, attaching seed-sowing device near the ground

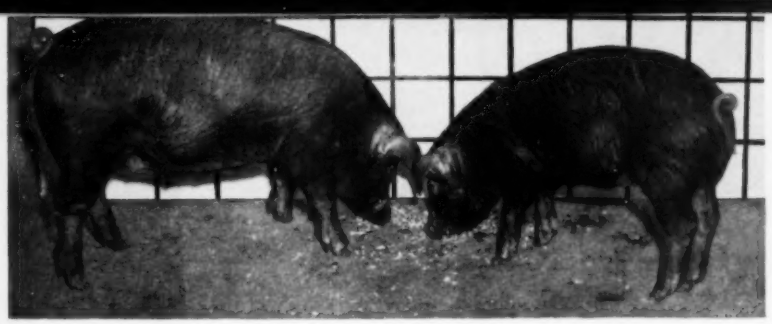
Spring teeth dig up earth; seed is then dropped. Seeders mounted on regular corn cultivators do the same job

and this is what you gain with cover crops

Good fall and spring pasture is one reward. A rye cover crop is often ready a full 2 weeks before other pastures

Corn ground usually is your best land. Cover crop will protect it from fall and winter's hard, erosive rainstorms

Soil structure is what is most lacking in the Cornbelt. Cover crops, plowed down, add tilth and organic matter



Both pigs started same, but look at difference now. Big pig averaged 1.49 pounds daily; small pig 0.88 pound. Both got same ration, but large pig also got B_{12} and streptomycin. Test was conducted at the Michigan Experiment Station. A Florida test showed double the gain

They've doubled gains with new drugs

Aureomycin, streptomycin, and terramycin reveal broad horizons in animal nutrition

Something has blown the lid clear off the realm of animal nutrition—almost overnight it has happened. The sudden impact of a new discovery, with its seemingly limitless possibilities, has left the animal nutritionists gasping with amazement, almost afraid to believe what they had found.

This development—the feeding of antibiotics—promises to hit the feedlot just as hard as did the discovery of APF (animal protein factor) a year or so ago. It goes far beyond what APF alone can do. With vastly more efficient gains in prospect, it seems as though many of our common feeding and nutrition standards are headed for the scrap heap.

Discovered by accident. Let's start with a typical case, that of Dr. T. J. Cunha, swine nutrition worker at the Florida Agricultural Experiment Station. He stumbled onto this antibiotic feeding idea while working with an APF supplement made from the fermentation processes used in the manufacture of aureomycin. (Until now, aureomycin and other antibiotics have been for medical and veterinary use.)

It seemed that this particular form of APF did more than some of the others, such as pure Vitamin B_{12}. And he wondered why. Like several other swine nutrition scientists working at the same time, he guessed that a trace of aureomycin might be left in the APF, and that this residue might be turning the trick.

Pigs gained twice as fast. Tests were started with aureomycin to see whether his hunch was correct, and here's what he found: Hogs getting a ration of corn, peanut meal, minerals (including trace), and all the vitamins known to be needed by a swine gained 0.75 pound per day. Hogs getting the same ration with aureomycin added gained 1.69 pounds daily. That's twice as fast.

This dry-lot test, starting with pigs weighing 35 pounds, lasted 54 days. The aureomycin-fed pigs averaged 126.75 pounds in weight at the end of the test, while the pigs without aureomycin weighed only 80.5 pounds. This is a gain of 91.75 and 45.5 pounds, respectively, for two lots of pigs fed the same length of time.

And that isn't all. Those same pigs getting aureomycin ate only 289 pounds of feed per 100 pounds of gain, compared with 468 pounds for those without aureomycin. Quite a difference in feed efficiency!

Other swine nutrition men are reporting similar findings, although none quite so astounding as this. Cunha isn't positive that a second run, now under way, will show that much difference. But he sees no reason why it won't.

Helped chicks, too. Before going further with hogs, let's see what's happening with chickens. This takes us to the Michigan Agricultural Experiment Station, where trials are being run by Dr. A. C. Groschke and Dr. R. J. Evans. [*Turn to page 138*

Chicks respond to antibiotics almost as well as pigs. With special vitamins added too, gains more than doubled in one test

Here's what *Automatic Washers* offer you

- **Less tiring washdays**
- **Clean clothes with less work**
- **More free time**

There probably isn't a woman in the country who hasn't, after putting in a solid six to eight hours on the family wash, said aloud: "There *must* be an easier way!" There is—with an automatic washer!

The women who own them say it will make a better person out of you! How? By taking the drudgery out of washday and freeing you to do more of the things you enjoy—playing with the children, reading more, writing letters, napping, or simply doing your other work while the washing practically takes care of itself.

Once the clothes are in and you've set the dials, a completely automatic washer will soak, wash, rinse, and extract water from your clothes without any more attention from you. The automatic washer will drain off the water and shut itself off. You merely turn a dial for all these advantages.

You should not, however, expect miracles from an automatic washer. An automatic won't do anything the conventional washer won't do; the automatic, however, does the laundry with a minimum of your time and attention—a great saving for you. But you still must do a few preparatory tasks such as rubbing badly soiled shirt collars and cuffs and removing stains.

Do automatic washers wash clothes clean? The answer is "yes"—if used as directed by the manufacturer and operated properly. Read your instruction booklet and keep it handy for occasional checking.

By Jo Kelleher

We must admit that our own experiences indicate that some automatic washers wash with more satisfactory results over a long period of time; that is, some machines maintain the whiteness of clothes better than others.

The following five steps are more important in getting a clean, white wash in an automatic washer than is the brand of automatic you use:

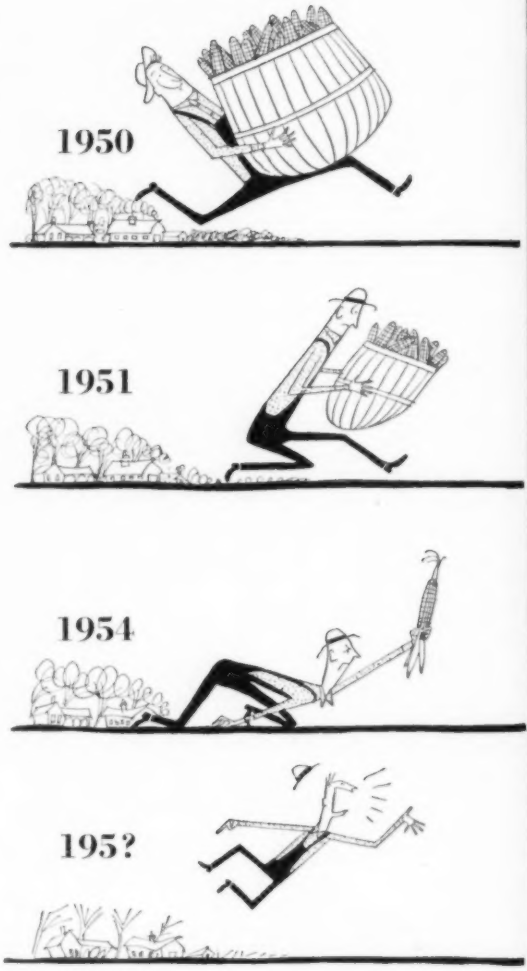
1. *Use softened water.* We cannot emphasize this enough. Regardless of the kind of washer you have, automatic or nonautomatic, it is advisable to use softened water. The curd formed by the minerals in hard water when they combine with soaps is almost impossible to rinse out. This gray residue stays in the clothes, and more accumulates with each wash. It gives white clothes a gray cast, dulls colored clothes, is hard on fabrics, and wastes soap. (See May *Successful Farming*, page 46.)

2. *Use a good detergent.* Some manufacturers recommend a specific one. In most cases, synthetic detergents are found to get best results when hard water is used. However, water may be softened easily with [*Turn to page 112*

The A. J. Sedgleys, living on a farm near Storm Lake, Iowa, enjoy new leisure since they bought an automatic washer, dryer, ironer. Mrs. Sedgley told us she does a little laundry every other day or so, and spends the hours so saved in sewing, reading, and playing with her pretty daughters. They are, at right: Mrs. Sedgley with twins Jane and Joan, and Annette (center). The Sedgleys wisely planned a place to spend their free time. They combined the laundry and den, now have a handsome room that says "relax all"

How much subsidy

Some want all they can get. Some want none. If you're still making up your mind, read these opinions of practicing farmers, scattered from New York to the Rockies. It's a diagnosis of farming's ills, by the patients



Lots of folks are telling each other, these days, just what the farmer wants. But no one seems to be *asking him* what he wants.

So *Successful Farming* told six top-notch farm reporters—in six widely scattered areas—to drive down the country roads, stop at farms, and ask. Here is what they were told:

From the Northeast

Enough to guarantee profits. "Enough to guarantee profits for a reasonably good living. And for as long as other parts of our society are protected." That's the emphatic opinion of A. G. Mazourek, dairyman who lives near Newfield, New York. Furthermore, he believes that with subsidies, production controls by law are "absolutely necessary"—and he's in favor of them.

Mr. Mazourek believes milk subsidies should be paid by the government, and production controlled in this fashion: "Say milk production for the New York City market was running 20 percent over demand, and my output was 100,000 pounds. The government would tell me I could produce 80,000 pounds and get the Class I (fluid milk) price, with subsidy. If I produced 10,000 pounds more than that, I would take a cut of $1 a hundredweight and a further cut for the next 10,000 pounds. I figure I would be getting my fair share of the market and a fair price."

He also believes that the Brannan Plan should be given a trial run to see how much it costs. Mr. Mazourek recently quit the Farm Bureau in which he was a committeeman, explaining that this farm organization's stand against the Brannan Plan was one of the reasons for his decision.

Can't get something for nothing. "You just can't get something for nothing. And I'm not willing to swap my liberty for 30 pieces of silver," declares Ralph Space, dairy farmer, Dryden, New York.

This middle-aged owner of a 160-acre farm is dead against "buying the privilege to produce." "Subsidies lead to production controls—which are the beginning of complete regimentation of the farmer and his family. I don't want this, and neither does my son, who expects to take over the farm in a few years," Mr. Space explains.

"The recent congressional action favoring cotton and peanuts proves such a system can never be balanced. Then, farmer fights farmer through political pressure.

"I believe, however, that it is not unreasonable to stay with price supports at levels which would insure against disaster, but wouldn't encourage great overproduction."

Mr. Space stresses the fact that if he can cut his costs still more, and yet do a good job of dairy farming, he can keep on making money, barring a complete collapse.

From the Northern Great Plains

Subsidies should be exception. Farm price supports and subsidies should be the exception rather than the

do farmers want?

rule, believes Kenneth Pyle, 1,900-acre farmer in Cass County, North Dakota.

The farm program needs flexibility, he says, so that we get the help when we need it, and operate without it when it's not needed.

"The present price support and subsidy situation has gotten out of hand. And if taxpayers get fed up with price-support bungling, we could wind up without *any* price supports. Many farmers and farm groups are demanding too much from the government. Either way is no good."

Programs, once emergency, now necessary. Adolph Johnson has farmed the same quarter of land in Cass County, North Dakota, for the last 27 years. His 160 acres of land are less than most of his neighbors have—his six children, more. Through diversification and government help—with support prices and subsidies—Mr. Johnson has been able to compete with his neighbors and make a good living for himself and his family.

"Without government regulation and help," Johnson says, "we would never have been able to vacation in California." That—to anyone who has wintered on a North Dakota farm—is a real measure of success.

Government farm-help programs—which started as emergency measures in the thirties—are necessary now, Mr. Johnson believes.

"Actually, the present program of support prices and subsidies gives the big farmer a better advantage than the small farmer, but it gives us little operators the protection we need to compete against them.

"I'd be glad to give up a few of my 18 head of milk cows if I knew I would get a decent price for my milk and cream. I'd cut my turkey flock back from 700 to 300 if the government would guarantee me a good price on the 300." That's the way Mr. Johnson feels about farm production control.

From Wisconsin's dairy country

Fears most efficient farmers. "It's got to be subsidies or else . . ." declares William D. Wilson, Jefferson, Wisconsin, dairyman.

"There's a gigantic squeeze on farm people," he continues. "Two-dollar milk won't pay for $2,000 tractors. We're faced with lower farm prices and inflated costs—an unbalanced price system."

Prices of milk and machinery are very much on Mr. Wilson's mind. He has spent $9,000 for machinery, and would like some more. His principal income is from 30 head of cattle—20 of them milk cows—on his 70 acres.

What does he mean by "or else"? Billy Wilson, as his neighbors call him, maintains that farmers now are losing ground and that if it keeps up, only the well-heeled, well-established farmers will survive. As farm operators are forced out of business, the most efficient farmers will take over more land and operate it with more and bigger machinery. He's against that.

The surviving big-time operators, he claims, would not be the kind of farmers we know today. They would be organized into what he calls an "industrial Fascism" for the purpose of extracting their prices from consumers.

How about the average farmer's increasing his efficiency to stay in business without subsidies? Wilson counters: "Gearing up the average farmer's efficiency year after year is like the speed-up on an assembly line, which labor has rebelled against."

He justifies subsidies on the ground that "government should protect farmers in their right and privilege to remain on the land."

Wants none at all. K. D. Knudson, Janesville, Wisconsin, doesn't believe in farm [*Turn to page 106*

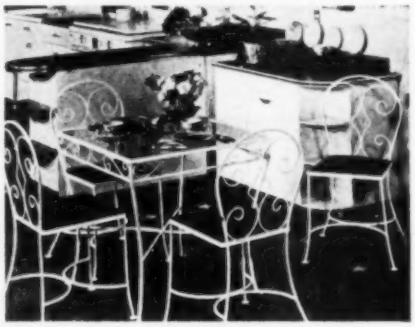
Furniture at home indoors or out

Here's good-looking furniture that will serve you to perfection all summer outdoors, then move right indoors with you when winter comes

If your family likes to take to the great outdoors for summer meals and the long, cool evenings, they'll want comfortable outdoor furniture. Such furniture is often considered a luxury because it's used for only a few months, then stored away for twice as long.

It is possible to have your cake and eat it too if you select the kind of summer furniture shown here. These types are right for inside your home, as well as comfortable outside. They're inexpensive, sturdy, and practical, also good looking. [*Turn to page 63*

Porch meals will be a real treat served on a good-looking wrought-iron set like this. Glass top is easy to care for



Wide selection of colors and sizes in wrought-iron dining sets makes them both practical and pretty for kitchen use

Lamps, pictures, and decorative accessories are all this rattan-type furniture needs to look right in a living room

Breakfast Quick is the trick

Raspberries in ice! Wash berries, drain almost dry. Sugar heavily. Chill overnight. Serve on *cool*, crunchy Rice Krispies. A luscious *breakfast main dish*—and so pretty!

No extra charge for the fun of Rice Krispies—the rice cereal so crisp in milk it says, snap! crackle! pop! And—those sweet crackly pops are as rich in iron, niacin and vitamin B_1, as whole brown rice!

Morning at mountain resort. "Riding, golf, tennis, the baths—make our guests interested in good breakfasts," says Frank Gray, maitre d'hotel of the New Greenbrier at White Sulphur Springs, West Va. "And Rice Krispies are a favorite. They are delicious—as crisp and fresh as our mountain mornings!"

16-word dessert tip—from Louise Lueder well-known home economist: *Scoop ice cream into serving dishes. Trickle on chocolate sauce. Top generously with crunchy Rice Krispies.* Adds Louise, "This gets youngsters voting for *Sundae-every-day!*"

"Be bright early, Miss Teen!" says Betty Betz, columnist for young Americans. "Skipping breakfast leads to *pre-noon sag.* Soon you'll be having morning dates for tennis, swims, hikes. Pre-date with your favorite Kellogg cereal—perform like *one sharp gal!*"

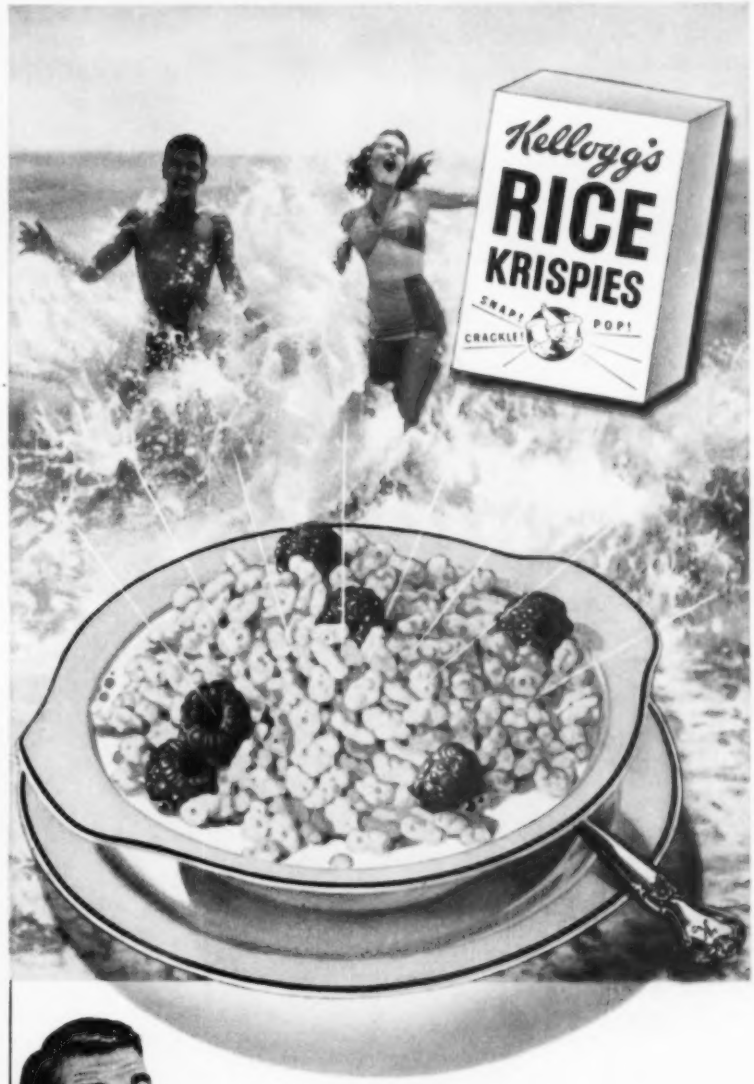
"A different cereal every morning gets my children eating good-sized bowls. That's why VARIETY PACKAGE goes on my weekly shopping list!" says Mrs. John H. Stout of Lewisburg, Pa. Yes, everybody falls for VARIETY'S 10 happy choices of seven different *favorites!*

Bride pleased: "My *initialed* Kellogg's *Signature* teaspoons are stunning!" writes the new Mrs. H. E. Krauss of East Orange, N. J. The teaspoon shown in cereal bowl picture is *Signature* Pattern. Get 4—each with *your own initial*—for only 75¢ with white-star end from Kellogg's VARIETY. Details on package. Old Company silver plate, made and guaranteed by Wm. Rogers Mfg. Co. of Meriden, Conn. With spoons, you get pattern list and prices.

"Rice Krispies" is a trademark (Reg. U. S. Pat. Off.) of Kellogg Company for its oven-popped rice.

WHY SIMMER THIS SUMMER?

A breakfast main dish of Kellogg's Rice Krispies—so cool, so crisp!



Man, how good!
Mom, how quick—
Cool Variety packs a
10-choice trick!

10-box choice of 7 cereal favorites

Kellogg's
Mother Knows Best!

Revere Ware... America's finest

Stainless Steel for permanence—copper for even heat. To bring brightness to your kitchen and enjoyment to your meals, get Revere Copper-Clad Stainless Steel Ware. To cook the time-saving "waterless" way, to save vitamins and minerals, to retain the full flavor of your food, to economize on fuel—get Revere Ware. To buy easy-to-clean utensils that will serve you faultlessly, and your children too, and yet retain their beauty through a lifetime of wear—get Revere Ware. But to get Revere Ware, the "Kitchen Jewels" that look and cook like a dream, ask to be shown the trade-mark in the thick copper bottom. Then you'll be sure you're getting the original Revere Copper-Clad Stainless Steel Ware. Revere Copper and Brass Incorporated, Rome Manufacturing Company Division, Rome, New York.

Save space and show off beautiful Revere Ware with the smart convenient Revere de Luxe Rack.

Ham-and-Potato Croquettes
Makes 10 to 12 croquettes

Combine 3 cups mashed potatoes
½ cup ground ham
1 egg, slightly beaten
1 tablespoon parsley
2 tablespoons chopped chives or onions
1½ teaspoons salt
¼ teaspoon pepper
Shape into small, round croquettes.
Dip in . . . 1 egg, slightly beaten
Roll in . . . 1 cup soft bread crumbs
Fry in deep fat at 350° until golden brown; drain.
—*Mrs. Marjorie Fairy, Minnesota*

Hawaiian Chicken Casserole
Serves 6 to 8

Cook . . . . 3 cups noodles until done in 5 cups chicken broth
Drain; reserve the liquid.
Brown . . . 1 cup diced canned pineapple
½ cup blanched almonds in 1 tablespoon butter
Melt . . . . 6 tablespoons fat
Blend in . 6 tablespoons flour
Stir in . . . . 1 cup broth from noodles
2 cups milk
Cook until thick, stirring constantly.
Add . . . . . 2½ teaspoons salt
½ teaspoon celery salt
¼ teaspoon pepper
¼ teaspoon onion salt
Combine all mixtures and 3 cups diced cooked chicken
Pour into greased 2-quart casserole.
Bake at 350° (moderate) 25 minutes.
—*Mrs. Elnora Bogner, South Dakota*

Ham Scrapple
Makes 18 slices

Boil . . . . . 4 cups seasoned ham broth
1 small clove garlic, diced
Add . . . . . 1 cup corn meal gradually
Cook 10 minutes, stirring often.
Stir in . . . 1½ cups diced ham
½ teaspoon sage
Cook slowly over hot water 15 minutes.
Season and pour into greased loaf pan.
Chill; cut in ½-inch slices.
Dip in flour; brown in fat.
—*Miss G. McCafferty, New York*

Garden-fresh vegetables

Make them even more delicious by adding sauces that enhance their flavors

Asparagus Casserole
Serves 4

Saute . . . . 1 tablespoon grated onion
¼ cup green pepper in 3 tablespoons butter
Blend in 2 tablespoons flour
Add . . . . 1 cup milk
Cook until thick, stirring constantly.
Add . . . 1½ teaspoons salt
¼ teaspoon pepper
Alternate in greased baking dish:
3 cups cooked asparagus
3 sliced hard-cooked eggs
Pour sauce over asparagus and eggs.
Top with 1 cup grated American cheese
½ cup buttered bread crumbs
Bake at 350° (moderate) 25 minutes.
—*Mrs. G. Staub, Nebraska*

Creole Cauliflower
Serves 6

Break . . . . 1 large head cauliflower into flowerets
Cook in boiling salted water until barely tender; drain.
Place in greased 2-quart casserole.
Sprinkle with
½ teaspoon salt
Melt . . . . ¼ cup butter
Blend in ¼ cup flour
Stir in . . . 2 cups milk
Cook slowly until thick; stir constantly.
Add . . . . ⅓ cup sliced stuffed olives
Salt and pepper to taste
Pour sauce over cauliflower.
Top with ½ cup grated sharp cheese
½ teaspoon paprika
Bake at 375° (moderate) 15 minutes.
—*Mrs. Severt Erickson, North Dakota*

Beets Supreme
Serves 6

Fry . . . . . 4 strips bacon until crisp
Drain.
Combine 1/4 cup bacon drippings
2 tablespoons flour
1 teaspoon salt
1/4 teaspoon pepper
Stir in . . . 1 1/2 cups thick sour cream
1/2 cup water
Cook until slightly thickened.
Add . . . . 3 cups small cooked beets
Cover and heat 5 minutes to blend.
Sprinkle diced bacon on top before serving.
—*Mrs. William Cullen, Missouri*

Carameled Carrots
Serves 6

Cook . . . . . 12 medium carrots in boiling salted water just until tender, about 10 minutes
Drain.
Roll in . . . 1 cup brown sugar
Saute in . . 1/3 to 1/2 cup butter until brown
Add . . . . . 1 teaspoon salt
1/8 teaspoon pepper
2 tablespoons lemon juice
Cook slightly; serve immediately.
—*Mrs. A. D. Trochinski, Minnesota*

Spanish Soup Beans
Serves 6 to 8

Combine 2 cups canned tomatoes
1/2 cup chopped onion
1/2 cup chopped green pepper
1 1/2 teaspoons salt
1 teaspoon Worcestershire sauce
1 teaspoon sugar
1/2 teaspoon chili powder
1/4 teaspoon pepper
1 whole clove
1 bay leaf
Simmer 15 minutes.
Remove clove and bay leaf.
Melt . . . . 1 tablespoon butter
Blend in . 1 tablespoon flour
Stir in tomato mixture gradually.
Cook until thickened.
Add . . . . . 4 cups cooked green beans
Heat to blend, about 5 minutes.
—*Mrs. Harry Granquist, Nebraska*

Good eating from leftovers

Hearty and tasty main dishes that mean no food waste

Ham Supper Casserole
Serves 5 to 6

Combine 4 cups diced, boiled potatoes
1 3/4 cups diced ham
1/4 cup chopped pimiento
1/3 cup chopped green pepper
Place in greased 1 1/2-quart casserole.
Melt . . . . 3 tablespoons fat
Blend in . 3 tablespoons flour
Add . . . . . 1 1/2 cups milk
Cook until thickened; stir constantly.
Stir in . . . . 1 cup grated cheese
1/2 teaspoon paprika
Season sauce and add to ham mixture.
Bake at 350° (moderate) 45 minutes.
—*Mrs. Will Schott, Iowa*

Chili Goulash
Serves 6 to 8

Cook . . . . . 1 1/2 cups spaghetti
Saute . . . . 1 cup chopped onion
1 green pepper, chopped
3/4 cup diced celery in
2 tablespoons fat
Add . . . . . 2 cups tomatoes
3 cups diced leftover beef
Simmer 20 minutes.
Add . . . . . 2 cups canned kidney beans
1 cup cooked peas
1/2 cup canned corn
Combine meat mixture with spaghetti.
Add . . . . . 2 teaspoons chili powder
1 1/2 teaspoons meat extract
1/2 teaspoon onion salt
1/2 teaspoon celery salt
Salt and **pepper** to taste
1 tablespoon flour
Simmer to blend, 5 to 10 minutes.
—*Mrs. Keith Rasmussen, Wisconsin*

This summer *have plenty of space*

...Kelvinator dependability, too!

12 cu. ft. of cold space in a cabinet that fits your farm kitchen!

Here's the answer to your stepped-up summer needs for plenty of cold space and foodkeeping dependability, brought to you by Kelvinator, *first* with "cold clear to the floor"!

Here's *extra big* refrigerated space! *12* cu. ft. of cold in kitchen-fitting cabinet!

As for dependability, Kelvinator, oldest maker of electric refrigeration for the home, has meant foodkeeping *reliability* for 36 years.

There's good reason for this record of faithful, unfailing refrigeration in every detail of construction . . . in the Polarsphere cold-making unit with ample reserve power to fill stepped-up summer demands unfailingly!

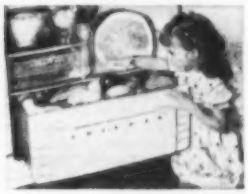
See the full line of roomy, beautiful, dependable Kelvinators at your Kelvinator dealer's.

Model VM, 12 cu. ft. of cold space, is only 31¼" wide, 28⅝" deep, 60¼" high!

Big Frozen Food Chest! So important in farm kitchens! You can store 42½ lbs. of packaged frozen foods and ice cubes in model VM illustrated. Saves meal-making time.

Room for bulky containers! Extra-roomy space for tall bottles, a big cream can, a basket of eggs. Interior is new Titanium-porcelain, 50% more stain-resistant!

Flexible storage, too! Removable shelves let you adjust space to store big jars, melons, a whole ham or a turkey. New Handitray gives you convenient *Moist*-Cold.



Full-width Super Crisper Drawer! Extra, *cold* space, it keeps over a bushel of fruits, vegetables and beverages cold and delicious . . . same temperature as space above!

FREE! Beautiful new booklet telling you the many ways Kelvinator appliances can make your work easier . . . and save you money. Write: Dept. JSF, Kelvinator, Division of Nash-Kelvinator Corporation, Detroit 32, Michigan.

LOOK FOR THIS EMBLEM. Awarded to "5-Star" salesmen of Kelvinator dealers, it is your assurance of the highest standard of courteous, helpful service.

Get the Space . . .
Get the Beauty . . .
Get the Buy . . .

Get Kelvinator

THE OLDEST MAKER OF ELECTRIC REFRIGERATION FOR THE HOME!

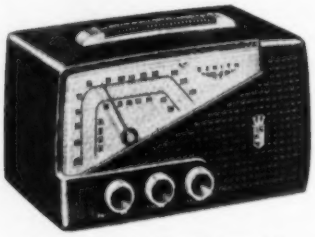
Enjoy Radio Static-Free

with Zenith's New Super-Sensitive FM

Gets more stations, better – because it's far more sensitive than the average of 16 other makes Zenith has tested! Gets your favorite programs where static and cross-talk spoil reception with ordinary radios, and where many other FM sets fail. Plus sports, news, weather, market reports, music not carried by AM stations!

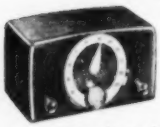
Also, Zenith's exclusive FM tuning circuits prevent station drifting and fading. Zenith-built speakers bring you *all* of FM's superior tone beauty. And Zenith's built-in FM antenna permits you to just plug in and play. No outside aerial needed in primary signal areas!

Get a thrilling demonstration at your Zenith dealer's—today!



New Zenith® "Super-Triumph"
Super-Sensitive FM *plus* Long Distance AM. Extra-quality Alnico-5 speaker. Cut-Away dial for easy tuning. Flexo-Grip handle. Walnut plastic cabinet. AC-DC.
Only **$59.95***

New Zenith "Major"



Super-Sensitive FM only. Terrific performer, with big set power and tone. Walnut plastic cabinet. AC-DC.
Only **$39.95***

*Price subject to change without notice. West Coast and far South price slightly higher on "Super-Triumph."

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Zenith Radio Corporation, Chicago 39, Illinois
Over 30 Years of "Know-How" in Radionics® Exclusively
Also Makers of America's Finest Hearing Aids

Extra nitrogen in June will pay you back four for one at corn-picking time

It's not too late to

get more corn

By Allan Leffler

There's still time to make a lot more bushels of corn on those fields of yours, unless you are one of those fortunate few who already lead the neighborhood on yields. A big reason for low corn yields on the poorer producing fields in any community in the Cornbelt is a shortage of available nitrogen during July and August. That's when it pays off.

If you have land which is apt to be *below* the neighborhood average, you'd better do some serious figuring about sidedressing with a high-nitrogen fertilizer. On such land, you can reasonably expect a dollar bill in six months in return for each quarter you spend for nitrogen within the next few weeks.

In case yours is *average* land with a somewhat better crop history and more manure, the deal isn't quite so attractive. There, you'll have to be satisfied with trading quarters for half dollars. But, you can't go broke at a practice where you double your money in six months.

Neither you nor your neighbor need worry much about rainfall, for the simple reason that the rain which makes 75, 90, or 115 bushels for him will be enough for you, too. The four key words in corn production are: seed, stand, soil, and season. Where do you stack up on the soil?

During the past 10 years we have pretty well taken care of the first two of these points (seed and stand) by using adapted hybrids. These combine the genetic *ability* for high production with high germination (through careful drying and seed treatment), which is necessary for good stands. And we know that to find how many kernels to plant per hill, we divide the desired yield by 20. Remember, you'll pick five ears for each six kernels planted, due to mortality between planting and maturity.

After you've attended to seed and stand, you've really only covered *half* the story, the same as putting new leathers in the kitchen pump doesn't increase the supply of water in the cistern.

Most folks will argue that an inch of rain each week during the summer will assure a bumper corn crop—and it will. Doing anything about supplementing rainfall gets to be fairly expensive, and sometimes is entirely out of the question.

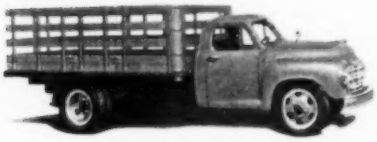
The pertinent point is that each year some fields make only half the crop of adjoining land, *regardless of the season*. The key to this proposition is that a well-nourished corn plant can make more effective use of available rainfall than one which is suffering under a combined handicap of water shortage and plant-food deficiencies.

Corn obtains nitrogen from four main sources: (1) soil organic matter, (2) legume crops, (3) manure, and (4) commercial fertilizer. Cornbelt soils range in nitrogen content from 2,000 to 5,000 pounds per acre, but less than 2 percent

[*Turn to page 58*

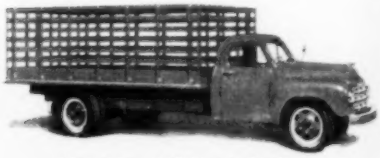
½-ton 6½-foot Studebaker pick-up truck with double-walled body

¾-ton 8-foot Studebaker pick-up truck—1-ton model also available



1½-ton 12-foot platform stake—2-ton also available

1½-ton shown with 12-foot grain body—2-ton also available



2-ton shown with 15-foot stock rack—1½-ton also available

What a thrifty truck this stand-out Studebaker is!

Designed right for farm work! Saves gas! Cuts other costs!

ALL over the nation, farmers with Studebaker trucks are getting an exceptional amount of mileage out of every gallon of gasoline they buy.

They're cashing in to the full on the out-ahead efficiency of Studebaker's modernly designed Econ-o-miser and Power-Plus engines.

Exclusive! Automatic overdrive!

All Studebaker ½-ton and ¾-ton trucks now have an exclusive thrift advancement to offer you—gas-saving automatic overdrive. It's extra cost—but it starts paying its way right away in extra savings.

Stop in at any Studebaker dealer's showroom and get first-hand proof of what Studebaker trucks could do for you with their extra pulling power—extra staying power—extra earning power. A fine choice of sizes and wheelbases.

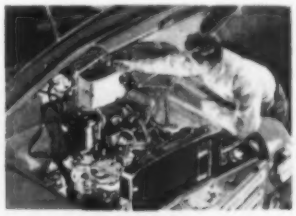
STUDEBAKER TRUCKS

Noted for low cost operation

The Studebaker Corp'n, South Bend 27, Indiana, U.S.A.

New convenience for the driver!

Low cab floor. No strenuous climbing. Foot-controlled ventilators. Adjusto-Air seat cushion. Big-visibility windshield and windows. Steps safely enclosed inside doors. Tight-gripping rotary door latches.



"Lift-the-hood" accessibility!

Engine, ignition, and instrument panel wiring are within easy arm's reach. No standing on a box. No stooping under the dash. You can make adjustments quickly and conveniently—on the road and at home.

Billy knew better than to take candy from a stranger...

I explained to him that Jim Ware* was a good friend. And Jim said, "Billy, your dad told me he took you into town to the barber shop today. And you got a lollipop for being a good boy in the chair—that right?"

"Uh huh . . . only . . ." And here the tears began again.

"Only on the way home your daddy had an automobile accident and the lollipop got smashed. Well, Billy, you're lucky. Your father carries State Farm insurance to protect things that are damaged in automobile accidents—things like fenders and bumpers—and, in this case, even your lollipop." And Jim handed him the biggest lollipop I've ever seen.

I'm darned if it wasn't one of the nicest things I ever heard of! And it was just one example of the thoughtful way Jim handled every detail of my claim. He had my car out of the shop good as new less than a week later! Made me happier than ever that I'd placed my insurance with a good man like Jim—and a sound company like State Farm.

Agents give personal attention

That's one of the extra benefits you enjoy as a policyholder in the State Farm Mutual Automobile Insurance Company. Should you have an accident near your home, generally your claim will be *personally* handled by the man who wrote your automobile insurance in the first place. He naturally is *keenly* interested in keeping you a well-pleased customer.

Savings benefit policyholders

Efficient, friendly service plus *low cost insurance* is what you get as a State Farm Mutual policyholder. Why? Because State Farm desires to insure only careful drivers—who have fewer losses—keep costs down. State Farm is a mutual company—savings benefit policyholders.

Get in touch with the State Farm agent in your community. Simply look up State Farm in your phone book. Before buying a new car, be sure to ask him about the Bank Plan for financing.

Policyholders: When you buy a new automobile your State Farm Mutual Insurance can easily be transferred to the new car.

**Jim Ware is a fictitious name, but his kind, thoughtful service is typical of State Farm agents.*

STATE FARM INSURANCE COMPANIES

BLOOMINGTON, ILLINOIS

Home Office

Western Office
Berkeley, California

Canadian Office
Toronto, Ontario

North Central Office
St. Paul, Minnesota

West Central Office
Lincoln, Nebraska

Michigan Office: Marshall, Michigan

It's not too late to get more corn

[*From page 56*]

of this becomes available in any one season.

Good alfalfa, or sweet clover catch crops, can add as much as 125 pounds of available nitrogen; but it probably hustles an average clover crop to add half that much. Soybeans will increase soil nitrogen by as much as 20 pounds if you're careful to spread the straw and plow it under. With average barnyard manure, figure 10 pounds of nitrogen to the load, but not all of it will be available the first year.

And when there is a shortage of nitrogen from these "natural" sources, you still have the chance to buy it in commercial fertilizer, where the first number of the formula shows the percentage of nitrogen.

During the first month of growth, 4 pounds of nitrogen will sustain all the corn plants on an acre of land, even if they get nothing from the soil. When the "earing" period comes, it takes 4 pounds of nitrogen *per day* to keep an acre of corn developing normally. The usual mixed fertilizer supplies only about enough nitrogen for the spring season. Most corn

You can put nitrogen halfway between rows, but get it down to the moisture

growers depend on the "natural" sources for the midsummer period—or do without an adequate supply.

When a corn plant tassels, it has attained a full height, but only weighs half as much as it will by fall if conditions are right. As there is a much better market for corn ears than cornstalks, it is to your interest to see that conditions are as right as you can make them. Even if you'll be satisfied with an average crop of 65 bushels, remember that it'll take 100 pounds of nitrogen to make it. See where you stand on your nitrogen balance, and add commercial nitrogen to cover any possible "overdraft" this August.

As a rough estimate of the rate of nitrogen application, you should figure on 10 pounds of ammonium nitrate or 17 pounds of sulfate of ammonia for each extra bushel you're gunning for. If you'll settle for a 10-bushel increase, perhaps 100 pounds will do. But if you really think that you want 20 bushels, to be on a par with the better fields around you, add as much as 200 pounds. I have

personal knowledge of doubling the yield of corn in each of two years on sandy land in central Iowa by adding 500 pounds of ammonium nitrate. The unfertilized land made just short of 40 bushels each year and developed typical "dry weather" firing symptoms early in July—while the nitrogen-treated land stood the "drouth" without extra water.

Nitrogen for midsummer can be plowed under or applied as a top- or side-dressing. You can't use the plowing method any more this season, although you may want to try it next year. Now, side-dressing is the answer.

Before the corn gets too big, you can side-dress with either one of your regular machines. First, you can offset your planter hitch and use the fertilizer attachment on the planter to string a band of nitrogen a few inches away from the corn row. Or, maybe you can rig a special wind guard on your broadcast fertilizer sower to keep the material off the corn rows. Sometimes it is possible to plug up some of the holes to achieve this same end.

There are also regular fertilizer attachments for most standard makes of corn cultivators, and some universal makes, which can be bought with kits of fittings to mount on any make of tractor. Such outfits cost about $80 for a 2-row rig and are an excellent way to apply extra nitrogen to thin land.

Many people have been able to improvise side-dressing equipment. One such case is the use of "plow attachments" on some power-lift cultivators. About the only special equipment needed is a fairly heavy spring to make the trailing "land" wheel ride the ridges.

Don't make the mistake of waiting until the last cultivation to put on your nitrogen. Too many people have been disappointed with this. First, corn has a way of growing fast the last of June, and you can't make money with nitrogen if you only get over half of the field at "layin' by" time. The other misfortune with late application is that a dry summer may set in and leave your nitrogen high and dry. It'll still be there next year to increase oats yields, but won't have made you the corn you wanted this season. The odds of having a good soaking rain after application are better when you get the job out of the way by mid-June than if you wait until July. END

News

Inoculation increases bean yield, protein content

It pays to inoculate soybean seed. An Iowa test showed that beans which had been inoculated produced as much as 25 percent greater yield, and the beans had about 2½ percent higher protein content.

In addition, it is a well-known fact that inoculation allows the soybean plant to store nitrogen in the soil by means of nitrogen-fixing bacteria, and thus to perform its function as a legume. In this manner, the soybean plant becomes less soil-depleting.

In the second field, the protein content was 36.6 percent for the nodulated beans, 34.2 percent for the beans without nodules.—*Don L. Holt.*

170,000 BALES IS A LOT OF HAY!

GET "Lubri-tection"!

Phillips 66 Premium Motor Oil provides Lubrication *plus* Engine Protection!

Robert Clark knows it pays in trouble-free operation to give his equipment the extra benefit of "Lubri-tection" (lubrication plus engine protection) with Phillips *66* Premium Motor Oil. This fine-quality oil contains valuable additives which help keep engines clean . . . help prevent dangerous accumulations of sludge and varnish. Get Phillips *66* Premium Motor Oil from your Phillips *66* Dealer or Tank Truck Salesman.

EXCEPTIONAL MILEAGE AT A LOW PRICE!

New! The Lee Staghound Tire with 100% "Cold Rubber" tread is unsurpassed for tread-wear and carcass endurance in the low price field! Get it from your Phillips *66* Dealer or Tank Truck Salesman.

PHILLIPS 66 PREMIUM MOTOR OIL

Listen to the Rex Allen Show every Friday night over C.B.S.

MY SECRET for Easy, Sure Home Canning is . . .

Ball DOME LIDS

Every year more home canners change to BALL DOME LIDS and BANDS — the world's finest! Look for the blue and gold box. Insure canning success with Ball Jars and Caps, *first* in public favor for four generations.

FAMOUS "*TOUCH-TEST*" SEAL!

BALL DOME LIDS tell at a touch if jar is sealed. Once you try these easy-to-test caps you'll never go back to old fashioned flat-top lids!

HOME CANNERS' *Bargain!*

BALL BLUE BOOK—world's best home-canning, preserving, freezing guide. Regular price 25c; yours for ONLY 10c and top from box of Ball Dome Lids and Bands. Good only in continental U.S. in 1950.

BALL BROTHERS CO., Dept. SF, Muncie, Ind.

Lightning demands respect, not fear

If your children are "Fraidy Cats" during an electrical storm, you are probably the one to blame

By Bernard Hirshberg

Mrs. Dillon and her little girl, Susan, were returning home from a visit.

"Let's take the short cut," suggested Mrs. Dillon. "There are too many cars on the road today."

They turned off and left the road to the automobiles. The short cut took them through a thickly wooded grove. Soon after they had hit the narrow trail, flanked by tall trees, an electrical storm struck the area. Lightning began to crackle all about them. A weird kaleidoscope of bright flashes against a dark canopy of tree leaves made the two almost breathless with fright.

Mrs. Dillon seized her daughter's hand and ran from the woods. Despite the fact that she was panting, and had half slipped and scraped her knee, Susan found she had to keep going.

Never in her life had she encountered such fury of sound. Most of the time the rumbling seemed far away, but at intervals it came nearer and nearer, like giant drums beating.

"What's wrong, Mother?" she asked when they reached the open clearing. "Is there someone in the woods, coming after us?"

Lacking a ready explanation, Susan's mother seized upon her suggestion as a way out. "Yes, there's someone terrible in the woods."

The child grew older. Yet, even when she was of high-school age, she had an overpowering fear of the woods. The initial fear she had experienced when she was a little girl remained with her. Her mother's stress on the terrible thing lurking in the woods left a phobia that she kept through the years.

Among the fears that have a strong effect upon children, fear of lightning and thunder claims a special priority. Before a child reaches the age when he learns to understand the natural causes of an electric storm, he is prone to become upset by the terrifying noise and the light flashes.

Fears vanish only when knowledge comes. This knowledge should, of course, be explained in the terms of the child's understanding. The child must be taught not to fear lightning. But at the same time, he must learn to respect its power and its possible danger.

[*Turn to page 62*

Your dreams of fine silverware can come true — Betty Crocker

Picture it on your table . . . this silverware of elegance and distinction.

Famous Tudor Plate by Oneida Community Silversmiths. Every piece is extra-heavy silverplate. An additional layer of pure silver protects area of greatest wear in principal forks and spoons . . . guarding their satin beauty through the years.

Thrilling new Queen Bess pattern is open-stock. Sixteen different pieces are available . . . everything you need for a luxurious table, including handsome serving pieces.

Here is a dream that *can* come true . . . easily, inexpensively . . . with coupons from any of the seventeen General Mills products listed below.

GENERAL MILLS

TUDOR PLATE BY ONEIDA COMMUNITY SILVERSMITHS

Dramatic Queen Bess Pattern

Its beauty inspired by the Golden Rose of China, this design was voted overwhelmingly first choice in one of the largest new silverware pattern surveys ever made.

Save coupons from any of the 17 General Mills products listed below.

Wheaties • Kix • Cheerios • Betty Crocker Cereal Tray • Bisquick • Softasilk Cake Flour • Gold Medal "Kitchen-tested" Enriched Flour • Betty Crocker Soups: Vegetable Noodle, Split Pea • Apple Pyequick • Betty Crocker Cake Mixes: Devilsfood, PartyCake, GingerCake and Cooky Mix • Crustquick, Betty Crocker Pie Crust Mix • General Mills Appliances: Tru-Heat Iron, Steam Ironing Attachment, Automatic Toaster.

General Mills

Special get-acquainted offer

3-PIECE STARTER SET, ONLY $1.00

No coupons needed! To acquaint you with the fine quality of Queen Bess Pattern Silverware, you may order (for a limited time only) a set of hollow-handle knife, fork, teaspoon for only $1.00. *Offer expires* June 20, 1950.

Important! No get-acquainted "starter set" orders accepted unless on order blank at right. *Send no silverware coupons or box tops. Save coupons for your additional Queen Bess Pattern pieces.*

IF UPON RECEIPT YOU ARE NOT CONVINCED THAT THIS SILVERWARE IS A REMARKABLE VALUE, RETURN IT, AND YOUR MONEY WILL BE PROMPTLY REFUNDED.

Dear Betty Crocker—

BETTY CROCKER, BOX NO. 1300, MINNEAPOLIS, MINN.

I accept your special get-acquainted offer. I enclose $1.00 (no stamps, please) for which send me my 3-piece starter set in Queen Bess Pattern Silverware.

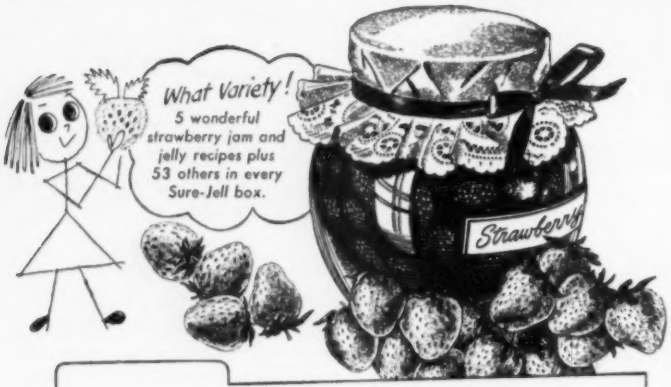
Only one starter set to a family, please. *No orders accepted unless on this order blank.* Orders must be postmarked not later than June 20, 1950.

NAME

ADDRESS

CITY POSTAL ZONE STATE

There's More than One Way to Handle A FRESH, RIPE STRAWBERRY!



STRAWBERRY-PINEAPPLE JAM

STRAWBERRY-RHUBARB JELLY

HOMEMADE STRAWBERRY JAM

4 cups prepared fruit
6½ cups sugar
1 box Sure-Jell

To prepare fruit. Crush completely about 2 quarts fully ripe strawberries. Measure 4 cups prepared fruit into a large saucepan.

To make jam. Measure sugar and set aside. Place saucepan holding fruit over high heat. Add Sure-Jell; stir until mixture comes to a hard boil. At once stir in sugar. Bring to a *full rolling boil* and *boil hard 1 minute*, stirring constantly. Remove from heat, skim, ladle quickly into glasses. Paraffin at once. Makes about 10 six-ounce glasses.

A Product of General Foods

There's magic in the word **HOMEMADE**

Lightning demands respect – not fear

[*From page 60*]

The parents should avoid *frightening* the child into respecting the powers of lightning. Your explanation should be on a rational basis, should take the form of explaining (1) the causes of lightning, (2) how lightning behaves, and (3) what to do to reduce the chance of being struck.

Following an easy-to-understand explanation of what causes lightning and thunder, a child is ready for some factual knowledge and guidance as to how to take care of himself during a storm. We know, for instance, that high objects will more readily be hit by lightning. If your child finds himself on high ground during an electrical storm, it is important that he know enough to go to lower levels where he will be protected.

Besides high objects that attract lightning, there are two other good welcomers, or conductors. These are water and metal. During a storm, bathers should get to dry land at once, and one should not handle any farm tools that have metal parts. A spade, a hoe, or similar metal-edged tool will attract a bolt of lightning.

A child should be taught that in extreme cases, when he finds himself on high ground during an electrical storm, it is a wise thing to drop to the ground and lie there. Should lightning strike in the immediate vicinity it will be deflected towards the nearest bush or tree, because both of these are on a higher level than that of the ground. The lower his position, the safer he is.

In this connection, however, a word of caution about seeking shelter under a bridge. The bridge may shield one from the rain, but it will serve as a great attraction for the lightning.

There are many ways of diverting the youngster's mind from thoughts of fear where lightning is concerned. One of them is by rhymes. Among the well-known rhymes that have helped rid youngsters of the fear of lightning are the following: "I must never stand under a tree, 'cause if lightning comes it might strike me." And this one: "When out in the open, lie on the ground; when the lightning is over, alive you'll be found."

Another way to abandon fear is to have it understood that when a storm is approaching, the child's job is to close all doors and windows. Having him preoccupied with something to do will take his thoughts away from being frightened by lightning.

It is of utmost importance that the older members of the family show poise and balance. Fear is contagious, and any semblance of panic on the part of the older folks will quickly communicate itself to the minds of the children.

If your child is afraid of lightning *do not scold, do not nag, do not ridicule!* Educators now realize that nagging, scolding, and ridiculing a child because he shows signs of fear, do not in any way lessen the fear or help the child.

In dealing with children who are afraid of lightning, appeal to their imaginations. Tell them "man to man" all you know about lightning, and explain clearly the things all people should do to protect themselves from lightning. This is the only way you can gradually help them conquer their fears. **END**

Furniture at home

[*From page 50*]

Wrought-iron dining sets are perfect for lawn or porch meals. They are sturdy, easily cleaned, and won't rust or stain. Come snowtime, these wrought-iron sets can be moved to your kitchen or basement recreation room for daily family use; or, if your home is a Modern one, they'll look well in your dining room.

Rattan and bamboo furniture has long been a sun-porch favorite. The wide variety of upholstery fabrics now used for cushions makes it equally smart inside the home. For bedrooms, dens, living areas, or recreation rooms, it can be right at home if colors and patterns are chosen to blend with indoor color schemes.

Much of the canvas, steel, and birch summer furniture will look well inside a Modern home. Tables, chairs, and even sofas are available in these types, all as modern-looking as tomorrow—and comfortable, too. Select canvas furniture in bold colors to make its simple styling and clean lines important.

Furniture isn't the only summer furnishings item that can lead a double life, of course. There are a multitude of new colors and patterns popping up in fiber rugs that make them acceptable for use outside and inside the home. Tweeds, plaids, stripes, and plain colors are available. For an inexpensive, easy-to-clean floor covering, fiber is worth consideration. Use it on your porch or patio for the summer, then in your bedroom or dining room during the winter months.

Particularly for those furnishing a new home, this versatile indoor-outdoor furniture is a grand help in budget balancing.

Although this birch table and these canvas chairs are intended for outdoor dining, they are ideal for use in recreation rooms, too

Wrought-iron dining sets may be used in a Modern dining room with usual draperies and carpeting if set blends with room colors. END

"Here Comes the Bride"

...and here comes her new Wurlitzer piano!

Giving the bride a Wurlitzer Piano—this, of course, is not a new idea. But neither is marriage. And every June these two events just seem to go together.

For good reasons, too. When you give a Wurlitzer Piano, you give romance, sentiment and happiness for a lifetime. And more. You give "something old and something new"—an old and respected name in music and the newest in styling and authentic design.

What a wonderful gift to find waiting in her home...

Wurlitzer Piano, Model 630. Available in blond mahogany, also richly figured walnut or mahogany.

Greater Value Because of Greater Volume

The Wurlitzer Piano is famous for fine construction, splendid tone and stamina. Yet it is remarkably low in price. Wurlitzer is able to give you far more piano for far less money for a very simple reason. *More people buy Wurlitzer Pianos than those of any other name.*

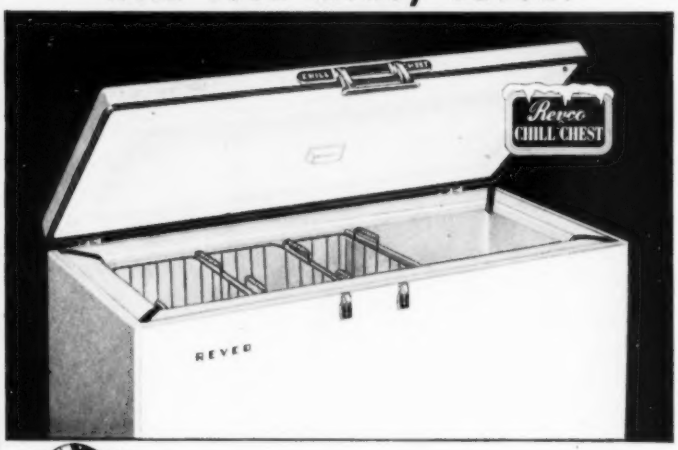
Remember that Wurlitzer makes electronic organs, too. Among them is a remarkable new two-manual instrument for the home.

WURLITZER

World's largest Builder of Pianos and Organs Under One Name

THE RUDOLPH WURLITZER COMPANY, DE KALB, ILLINOIS, EXECUTIVE OFFICES, CHICAGO, ILLINOIS

...pays for itself with food money saved!



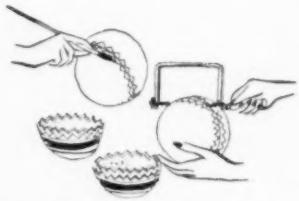
"It's the ... THRIFTY buy in '50!"

Choice meat cuts, varieties of In-season-foods with vitamin-packed goodness sealed in and stored right in your own home ... makes Revco CHILL CHEST Food Freezers your best food money saver. Available in 8, 15 and 23 Cu. Ft. sizes, Chill Chest Food Freezers give more storage and freezing capacity inside — yet compare in price and outside cabinet dimensions with most 6, 12 and 20 Cu. Ft. freezers now on the market. Fully a year ahead in design with features wanted most by housewives everywhere, Revco Chill Chests are "the THRIFTY buy in '50!". Compare before you buy ... comparison proves it.

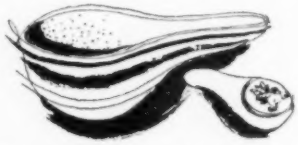
VISIT YOUR CHILL CHEST DEALER

Good ideas

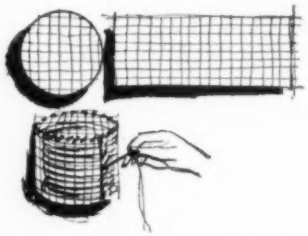
Here are some easy-to-make items which other homemakers have tried and found useful



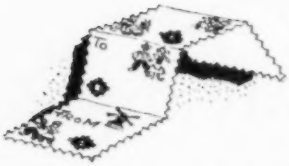
For serving popcorn, candy, nuts, or cookies, make clever bowls from gourds. Be sure gourd has dried out completely, then cut in half with a coping saw. Notch edges with a sharp knife. Paint bright stripes or colorful flowers on outside of gourd with enamel. Varnish bowls inside and out to preserve finish.



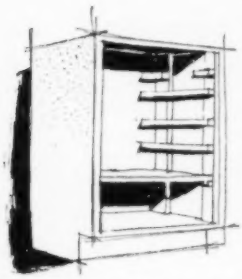
Popcorn bowls can be made from oddly shaped gourds by cutting them in half lengthwise, then painting and varnishing. Use very small gourds with long, narrow ends to make baby rattles. Let the gourd dry so seeds will cause rattle inside, then decorate outside with a nontoxic paint. Even children can make these.



Slipcovers will keep your best china clean and dust-free between special occasions. Make them from plastic storm screening (glass cloth). Cut a circle about 2" larger than your plates. Cut a rectangular piece long enough to go around the plates, allowing about 3" extra for easy fit and seams. Stitch the long piece around the circle, then seam the open side. The cover will be stiff enough to stand alone, so even if a few of your plates are in use, the rest will be protected. These make nice gifts.



Unusual greeting cards or invitations can be made from scraps of printed fabrics. With pinking shears, cut out a rectangular piece of cloth about 4" wide, 13" long. Soak the fabric in thick starch. Fold in half lengthwise, then fold again. Iron dry with moderate iron. The starch will make the fabric as stiff as paper, so you can write on it with regular ink.



Extra shelves can be built into steel cabinets without damaging the cabinets. Simply cut four supports of 1"x4" board exactly the same height as the inside of cabinet. Place these in pairs on your workbench, so the outside edges are the same distance apart as the depth of your cabinet from front to back.

Now nail 1"x1" wood strips across each pair of supports at the heights you want shelves. Be sure strips are evenly matched on each pair of supports. Slide each set of supports into cabinet against side walls. Cut number of shelves needed from lightweight hardboard to fit between supports on each side. Lay each shelf in place on corresponding strips. The shelves will hold supports against the sides and will pull out for easy use.

Tall glasses or vases can be made easily from old bottles. Saturate a piece of heavy string with lighter fluid or white gasoline. Tie string around bottle below curve of the neck, as shown above. Be sure string forms a straight line all around. Knot it tightly with as small a knot as possible. Ignite string. Allow flames to envelop top of bottle for a few seconds, then quickly immerse top of bottle in pan of cold water. Top will break off. Smooth edge with fine file. **END**

"CALORIC IS The Cookingest cleanest range I'VE EVER USED"

So says one Texas homemaker. And thousands of women throughout the country are proving every day that the smart, streamlined Caloric is the "cookingest, cleanest LP-Gas Range" *they've* ever used. See "America's Easiest Ranges to Keep Clean" at your LP-Gas dealer. Caloric has every feature you want for automatic cooking even beyond the city gas mains. Caloric Stove Corporation, Widener Building, Philadelphia 7, Pa.

ULTRAMATIC

1 Flavor-Saver Dual Burners—save gas, hold flavor. Replacement guaranteed for life of range.

2 Hold-Heat Oven with exclusive seal. Automatic Oven Time Control optional on "CP" Models.

3 Veri-Clean Broiler with smokeless Hi-Lo Rack and Pan. Completely removable. Washes like a dish.

SEE THESE EASY-CLEAN FEATURES

Porcelain enamel inside and out—all white parts triple-coated, acid-resisting.

Seamless Oven, Broiler, Burner Box, all with rounded corners—no crevices to hold dirt.

Broiler, Burners, Oven Bottom, completely removable for easy cleaning.

All models specially engineered for "Pyrofax" Bottled Gas and other LP-Gases.

Caloric GAS RANGES

AMERICA'S EASIEST RANGES TO KEEP CLEAN

1

Gentler *bleaching action.....*

added protection for linens! Yes, it's worth remembering that Clorox *conserves* precious linens, keeps them "in the family" for a long, long time. The reason is: Clorox is free from caustic, *extra gentle,* even on delicate fabrics. So, to conserve *your* white and color-fast cottons and linens, remove stains, make linens snowy-white, color-bright, remember the magic word . . . Clorox!

2

Greater *disinfecting efficiency...*

added protection for health! Lucky folks in this house! Their bathroom is sparkling bright, hygienically-clean as well! That's because this thoughtful mother includes Clorox in her routine household cleaning. For besides removing stains, Clorox does a better job of disinfecting. Why not put this extra efficient germ killer to work protecting the health of *your* family? Directions on label.

Copr. 1950 Clorox Chemical Co.

CLOROX AMERICA'S FAVORITE BLEACH AND HOUSEHOLD DISINFECTANT

Ironing is easier with two-way irons

The new steam-or-dry combination irons save your time, energy, and your temper. With them, you can iron most of your clothes without dampening them

"How do you do that?" I asked my neighbor, as I watched her take her children's dry summer playclothes from the clothesline and iron them to smooth perfection with what looked to me like an ordinary electric iron.

"Sit down—I'll tell you about it," she said. I perched on a high stool in her kitchen, sipped a cool glass of iced tea, and heard the whole story.

The secret of it all seemed to be that she had one of the new steam-or-dry combination irons. She could use it as a dry iron when ironing dampened linens, starched clothes, closely woven cottons, and medium or heavyweight rayons. But with a flick of the switch, she could turn the iron to steam and sail through the rest of her laundry without having to stop first and sprinkle the clothes.

As she told me this, she picked up a bone-dry white ruffled curtain. The material was permanent-finished organdy—yet she ironed the whole thing without dampening! I thought of my own struggles of that very morning, turning the iron up to iron faster before the curtain dried out, then scorching the curtain. I had to wash it out, let it dry, and start over.

I decided then and there to find out about two-way irons, which iron dry or with steam by merely a turn of a dial. I combed the market, and found the types you see here. About the most wonderful thing I found was the saving in time, energy, and temper. I no longer dampen

[*Turn to page 68*

Gabardines, spun rayons, jersey, shantungs, crepes, and butcher linen may be steam-ironed without dampening. Ironing on the wrong side prevents shine on dark fabrics or double thicknesses (seams, collars)

Pongees, silk shantung, silk crepes, and similar silks may be steam-ironed without dampening. Other silk materials will iron more easily and will look better if they are quite damp before you start to iron them

Wool skirts are steam-pressed from hemline to waistline. To remove bagginess, hold the rest of the garment taut, so that the steam can shrink the fullness back to its original shape. Steam knife-edged creases in pleats

Trousers take to a steam-on ironing! To remove bagginess, press the legs out flat, then steam-shrink the wool back into its original shape. Use a thin, dry press cloth to prevent a shine on hard-finished woolens

Be sure to see the *new* **Maytag Automatic!** Washing, rinsing, spin-drying, Maytag does it all *automatically!*

Maytag's famous Gyrafoam washing action washes *everything* clean—work shirts, overalls, play clothes, and towels!

Water stays hot longer in Maytag's big roomy tub. Cleaner, too, for the soil is caught in a special Sediment Trap and can't recirculate through water and clothes.

For the cleanest washes year after year, no other washer can equal a Maytag!

Enjoy *your* new Maytag now . . . pay for it with a liberal trade-in and low monthly payments. Your nearest Maytag dealer is listed in the phone book. Call him today for a free demonstration.

The Maytag Company, Newton, Iowa.

Maytag ranges mean kitchen freedom

by *Linda Marshall*
MAYTAG HOME SERVICE DIRECTOR

GRANDMOTHER was too busy preparing meals and keeping her wood range fired to enjoy the balmy days of spring and summer.

But *you* can be freed from hours of kitchen time with the wonderful Maytag Dutch Oven Gas Range.

You'll cook an entire meal over *one tiny* flame in the Dutch Cooker Well!

And you'll cook a complete oven dinner without even being in the kitchen! Yes, you can cook the *automatic* Dutch Oven way . . . *or* by usual methods, in the Dual Performance oven.

And the Maytag is easy to clean! Burners lift right out, and a whisk with a damp cloth makes them gleam like new.

Another time-saver! The Sizzle-Serve broiler doubles as a handsome serving tray.

With typical Maytag construction throughout, this range will be your friend for years! See the SIX beautiful new Maytag gas ranges . . . each fully approved by the American Gas Association for LP bottled or city gas.

Maytag WASHERS • IRONERS • RANGES • FREEZERS

Tampax is a "Must" for careful women

Good grooming cannot be neglected in this modern woman's world — *not at any time of month!* And there's a special reason to beware during "those worrisome days" when belts, pins and pads may well form ridges and outlines that show through your dress or skirt.... However, modern science has kept ahead of the problem with doctor-invented *Tampax*, designed to be worn internally and to absorb internally.

This *Tampax* is made of pure absorbent cotton compressed in dainty insertion-applicators, so you needn't touch the Tampax with your hands. Quick to change; easy to dispose of—and it causes no odor! Wear it in tub or shower or when swimming. So compact an average month's supply will slip into your purse.

NO BELTS
NO PINS
NO PADS
NO ODOR

The Tampax method is dainty, efficient and modern. It saves worry and self-consciousness at such times, and it represents "good grooming" in the monthly-protection department. Sold at drug and notion counters in 3 absorbency-sizes: Regular, Super, Junior... Tampax Incorporated, Palmer, Mass.

Accepted for Advertising by the Journal of the American Medical Association

Two-way irons

[*From page 66*]

many clothes, thus do not spend precious hours drying out clothes I overdampened. On the other hand, I don't have to stop and resprinkle too-dry clothes.

One of the things I especially like about my iron is the easy-to-fill reservoir. The temperature control dial is so easy to set and easy to read. My iron holds about a cup of water—which means that I can iron for almost half an hour without refilling it. The iron puts forth a good volume of steam. One day I held the iron about an inch over the dress I was ironing, then felt the dampness of the dress. I could hardly believe that my small iron could put so much moisture into the garment.

My two-way, or combination, iron is neither heavy nor bulky. In scouting through the stores, I discovered one two-way iron that weighed as little as 3¼ pounds. The iron is just a little bigger, all around, than my old dry iron.

I can refill the iron with hot water and be steam-ironing again in two minutes! From a cold start, it usually takes just five or six minutes to heat the iron. I test to see if steam is forming by holding a knife blade near the steam vents.

I use distilled water in my iron. The manufacturer said I could use either tap or distilled water, but the water on our farm is unusually hard. I wouldn't want to build up a lime deposit on the inside of the iron. The lime deposit would mean I'd have to be without the iron for a few weeks while it went back to the factory for repair. Sometimes when I forget to stop at a drugstore or filling station to get the distilled water, I use strained rain water or water collected from defrosting the refrigerator.

I realize one of the very biggest advantages of a two-way iron when I am using it dry: When I come to a place where the garment has dried out, I simply switch to steam. This puts enough moisture in the garment to dampen it.

Somehow, I'd always supposed that steam irons were limited to ironing woolens, and pressing as you sewed. And, of course, the steam part of the iron *is* excellent for woolens. It has already saved nearly the price of the iron—what with fewer trips to the cleaners with family clothes. To say nothing of my family's spick-and-span look—with all clothes freshly pressed all of the time.

But little did I realize the many other uses I'd find for the steam feature of my iron. It's a wonder-worker with rayons, because the controlled moisture prevents their disintegrating from improper ironing with a dry iron.

And just like that, the ironing is done. My lightweight, two-way (steam or dry) iron saves my sprinkling, rolling, and unrolling. No dampening of many garments saves precious hours formerly spent drying out clothes.—*Jo Kelly.*

Knitted garments—dresses, sweaters, baby clothes, all will look professionally blocked when you shape them with steam. The steam moistens the wool enough to allow shaping garment, then dries the fabric

Lightweight cottons, such as curtains, undergarments, sheets, pillowcases, and tea towels may be steam-ironed without dampening. Dampen linens, heavy cottons, closely woven cottons, and other starched fabrics

Velvet and corduroy pile is uplifted with steaming. Here a velvet hat gets the steam treatment. Hold the iron about an inch away from the right side of the material for a few seconds, then brush nap lightly

Pile rugs, mohair, velour, or other pile upholstery fabrics can be renewed by steaming. Hold the iron about an inch from wherever the pile is down. Let the steam penetrate for a few minutes; brush up nap. END

Smart summer clothes—way below store prices...

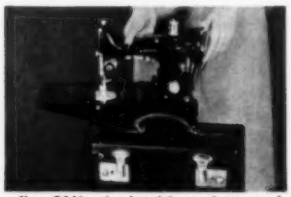
WHEN YOU SEW ON A NEW SINGER SEWING MACHINE!

PLAY SUITS, evening skirts, cotton dresses—make a whole wardrobe of sleek-fitting clothes at less than half what they'd cost to buy!

It's easy with one of the new SINGER* Sewing Machines. They stitch smooth as a breeze on any fabric. Sew forward and backward. Stitch over pins, save hours of basting.

Prices start as low as $89.50. Easy budget terms. Liberal allowance on your present machine.

See the new models now. And for notions, lessons, service, always call on your SINGER SEWING CENTER.



• **You CAN take it with you!** SINGER* Featherweight Portable, world's most popular machine. Weighs 11 lbs. Does work of full-size model. Comes with case.

• **It will stand up for years** if it's built by SINGER. And you can always get service and supplies from *any* SINGER SEWING CENTER. Above: desk model.

• **You get 8 lessons** in home dressmaking or decorating at your SINGER SEWING CENTER when you buy new machine. Also: basic set of SINGER Attachments.

Play suit above, with matching jacket and skirt, is made from McCall Patterns 7218 and 7665.

• **So many styles** to choose from! Modern, colonial, period designs. Handsome models to fit every home, prices to fit every purse. Above: economy cabinet.

• **Buttonhole Attachment** is easy to use and makes perfect buttonholes in a few seconds each. Also available: attachment for invisible hemming.

• **Everything for sewing!** Notions, button-and-belt-making service, "SINGER Sewing Book" with 1000 illustrations. All at your SINGER SEWING CENTER!

FOR YOUR PROTECTION SINGER sells and services its Sewing Machines, Vacuum Cleaners, and other products only through SINGER SEWING CENTERS, identified by the red "S" Trade-mark and the "SINGER SEWING CENTER" emblem on the window, and never through department stores, dealers, or other outlets.

Above is SINGER SEWING CENTER at 207 West Central Ave., Albuquerque, N.M. For address nearest you, see classified phone book. Or write SINGER SEWING MACHINE CO., S-16, 95 Liberty St., New York 6, N.Y.

SINGER SEWING CENTERS

THERE'S ONE NEAR YOU TO SERVE YOU

*A Trade-mark of THE SINGER MANUFACTURING COMPANY

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Nobody needs these more than a bride!

Brides will love these Pyrex gifts! (Wouldn't *any* woman?)

Remember—your nearest Pyrex counter is a wonderful place for gift shopping!

A measure that's pleasure a dozen ways!

Measuring's easy with a Pyrex Measure—the red markings are so easy to read! Use the 1-quart measure for mixing frozen orange juice, for making and pouring pancake batter, and as a bowl with an electric beater.

PYREX MEASURES—1-quart size **75¢** 1-pint size **50¢** 1-cup size **25¢**

Entertaining is fun with these new dishes!

They're modern, bright, and a marvelous idea! She'll use them for oven-baking, for serving salads, soups, dessert. Set includes large open bowl (2½-qt. size) and four 12-oz. individual dishes in red or yellow.

PYREX OVENWARE *HOSTESS* SET, Gift-Boxed **$2.95**

Let her make the coffee perfect every time!

Coffee *can't* be a hit-or-miss matter with a Pyrex Percolator. She can *see* when it's perked to perfection. She'll use it, too, for cocoa, for serving iced beverages. And it's sturdy—2½ times as strong as ordinary glass.

PYREX FLAMEWARE PERCOLATOR 4-cup size **$2.45**
6-cup size **$2.95** 9-cup size **$3.45**

PYREX FLAMEWARE
for top-of-stove cooking

PYREX OVENWARE
for baking and roasting

PYREX
If it's Pyrex there the trade-mark is on it
WARE

A Product of
CORNING GLASS WORKS

"Corning," "Pyrex," and "Double-Tough" are trade-marks in the U. S. of Corning Glass Works, Corning, N. Y.

Strawberry Ballymaloe

[*From page 43*]

its surrounding farm became a favorite haunt of mine, and it was in the big, stone-flagged kitchen of this house that I watched the sponge cake being made by the wife of the owner of the estate. She herself was an Australian who had married an Irishman during the first world war.

"The recipe was one which had been used in this kitchen for nearly three generations. It was simply known as 'the sponge cake.' It was always made for special occasions—Sunday picnics, tennis parties, and so forth. When I saw it made, the baking was done in an enormous old black range, with no way of testing the oven temperature except the tried-and-true method of shoving in a tentative hand.

"I was about 18 years old at the time and had just finished a course of home economics at school. I wrote down the ingredients and the method while watching the cake being made—and then forgot all about it for years.

"The recipe was among those which I brought to this country with me from England. At first, I felt very much at sea in my housekeeping—or rather homemaking. I wasn't used to the American cake recipes because the idea of everything being measured in cupfuls was strange. In the British Isles cake ingredients are weighed, or measured by spoonfuls or gills, and liquids are measured in half pints. I remembered the sponge cake recipe as being simple to make and decided to see if I could convert it for use over here. The change-over was accomplished by referring to a table of equivalent weights and measures.

"For your interest, here is the original recipe for the quantities:

4 eggs
The weight of 2 eggs in flour
The weight of 3 eggs in sugar
1 level teaspoon baking powder
Pinch of salt

"I took the weight of the eggs as 2 ounces each when working out the amount of flour and sugar by cupfuls, and made a lucky guess at the specified hot oven.

"As for the meaning of the word 'Ballymaloe'—I'm afraid I don't know it. I merely used it to title the recipe because I had obtained it from there."

We tested Mrs. Carlson's recipe in our Tasting-Test Kitchen and added only

Dignity at two

Dignity's a baby smiling
With warmth—and wisdom, too,
And great-hearted tolerance
For folks like me and you.

Dignity's a baby sleeping,
Dreaming dreams of peace,
Tiny hand to rosebud ear,
And hair like golden fleece.

Dignity's an infant running
With flashing eyes of blue,
With courage, help, and love
Right to the heart of you.

—*Cy Lance*

lemon extract, which we found enhanced the cake's flavor. Then we increased the amounts of ingredients to make three layers instead of two. Following is the recipe that will make the three-layer dessert you see on page 42.

Strawberry Ballymaloe
Makes three 9-inch layers
Serves 10 to 12

Grease bottoms of 3 straight-sided layer pans (do not use slanted ones); then line them with waxed paper, and grease again. Do not grease or line sides.

Sift together
1½ cups sifted cake flour
1½ teaspoons baking powder
½ teaspoon salt

Beat . . . . **6 whole eggs** until foamy

Beat in gradually
1 cup plus 2 tablespoons sugar

Beat egg-sugar mixture until it is so thick it *stands in soft peaks.* This is important!

Fold in . . . **1 teaspoon lemon extract**

Fold in dry ingredients carefully, a little at a time.

Pour batter into pans, spreading it well to the edges.

Bake at 425° (hot oven) 12 minutes.

Remove cakes from pans immediately and pull off waxed paper.

Cool.

Arrange . **6 cups sweetened strawberries** between layers and on top.

Garnish top with
sweetened whipped cream

Note: If you desire a lush, juicy appearance, let some of the strawberries sprinkled with sugar stand until juice is drawn out.

Do not confine Ballymaloe to strawberries. It is just as delicious with fresh peaches, blackberries, and raspberries, canned fruit purées and jams. **END**

Send us your recipes

Do you have a recipe to submit for testing in our kitchen? *Successful Farming* pays $5 for each recipe published on the Successful Recipes pages. Please write on only one side of the paper. We cannot return unused recipes.—Editors

Times change

Tom Jackson's wife worked hard and long,
And made herself a slave.
With motive sure and purpose strong
She helped her man to save.
To lay aside her brooms and mops,
To buy a silken gown,
Forget the stock, and plows, and crops
For good, and move to town.

Her son's wife labors daily now,
And plays a weary part,
Determination on her brow,
(And deep within her heart)
To leave the Main Street rooftree gray
For one of greater charm—
Some blessed and long-dreamed-of day
To move back on the farm.

—*Clarence Edwin Flynn*

This misty-light beauty comes out high, fine, and even *every* time, thanks to dependable Calumet Baking Powder. Calumet's double-action raises your batter *twice*, first in the mixing bowl, and then in the oven—gently but firmly holding each layer up, up . . . to airy perfection.

Bowl him over, Little Bride!

See the wonderful difference Calumet makes in your cakes!

Make him this show-off white cake . . . he'll brag about you forever after.

So easy! . . . even for a beginner—with Calumet's double-action for your guardian angel.

One taste, and you'll see why so many good recipes call for "double-acting" baking powder . . . why more women buy Calumet than any other baking powder.

Use Calumet in all your baking. Calumet biscuits are famous . . . Calumet hot breads and waffles are superb.

Get a can of Calumet today!

SLIPPER SATIN WHITE CAKE

Attention: This recipe has been developed and tested for Calumet—the dependable Baking Powder. Use Calumet for the best results.

Preparations. Have the shortening at room temperature. Line bottoms of pans with paper; grease. Use two deep 8-inch layer pans or 10x10x2-inch pan. Start oven for moderate heat (375°F.). Sift flour once before measuring.

Ingredients:
2 cups sifted Swans Down Cake Flour
2½ teaspoons Calumet Baking Powder
¾ teaspoon salt
1 cup sugar
3 egg whites
¼ cup sugar
½ cup shortening
¾ cup milk
1 teaspoon vanilla

Now the Mix-Easy Part! (Mix by hand or at a low speed of electric mixer. Count only actual beating time or beating strokes. Allow about 150 full strokes per minute. Scrape bowl and spoon often.)

1. Sift flour once; measure into sifter and add baking powder, salt, and 1 cup sugar. Set aside.

2. Beat egg whites with rotary egg beater (or at high speed of electric mixer) until foamy; add ¼ cup sugar gradually, beating only until meringue will hold up in soft peaks.

3. Place shortening in mixing bowl and stir just to soften. Sift in dry ingredients. Add milk and vanilla and mix until all flour is dampened. Then *beat 2 minutes.*

4. Add meringue mixture and *beat 1 minute* longer.

Baking. Turn batter into pans. Bake in moderate oven (375°F.) 25 minutes, or until done. Cool. Frost as desired.

(*All measurements are level.*)

CALUMET BAKING POWDER

Double-acting for Double-sure Success!

A Product of General Foods

Use this one fly spray

on the cows

and in barns

SAFE ANYWHERE
because it contains
METHOXYCHLOR
Recommended by the U. S. Dept. of Agriculture

USE it on milk cows *and* in dairy barns and milk rooms. Safe on young stock and stock to be slaughtered. Safest long-lasting insect killer yet discovered.

EFFECTIVE—Kills hornflies, stable flies, houseflies, mosquitoes, fleas, and lice.

LONG-LASTING—One spraying normally is effective for several weeks.

ECONOMICAL—One pound is enough to spray about 25 head thoroughly, or to cover 1,500 square feet of wall surface.

EASY TO USE—Comes as wettable powder ready to mix with water.

• Get it at your local dealers in ¼-lb., 1-lb. and 2-lb. packages. If he doesn't have it, write Du Pont, Animal Industry Div., Wilmington 98, Delaware.

DU PONT
REG. U. S. PAT. OFF.

DAIRY CATTLE SPRAY

BETTER THINGS FOR BETTER LIVING
. . . THROUGH CHEMISTRY

Tune in Du Pont "CAVALCADE OF AMERICA"
—Tuesday nights, NBC, Coast to Coast

Hay dryers can be inexpensive

You can install a hay dryer in only part of your haymow for as little as $450. Here's the proof—the experience of dairy farmers

By William Ward

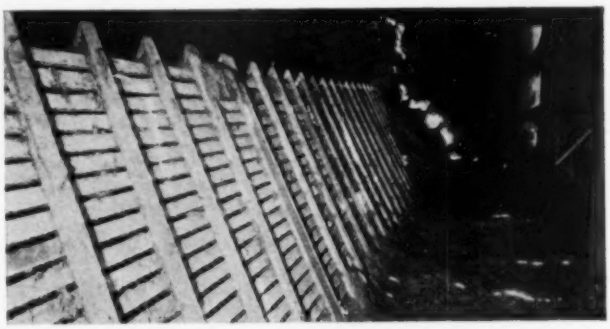
That all-too-frequently heard weather report—"rain tonight and again tomorrow"—doesn't worry Robert Hill a bit. Even when he has his first cutting of hay on the ground at noon. This Speedsville, New York, dairyman gets the field loader out in the afternoon and hauls the hay to the hay dryer he built from old lumber.

The dryer is built in one half of the mow. On the other side of the haymow, he stores his second cutting which is field-cured later in the summer when the weather is more likely to cooperate.

When Mr. Hill compares his experience with haymaking in late May and early June with that of his neighbor, he's more sure than ever that his mow dryer is worth every dollar of the $450 he put into it. He terms it "mighty inexpensive weather insurance."

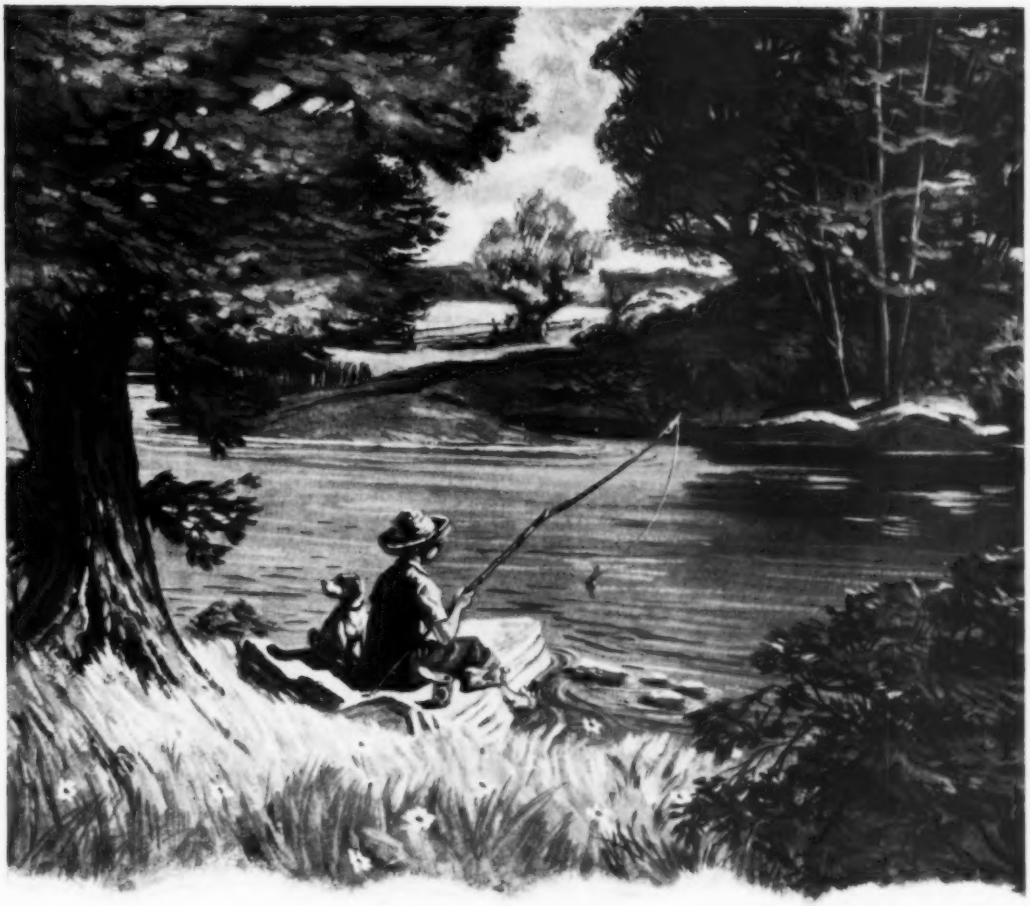
"Last summer my neighbor and I cut hay the same day," he recalls. "That night we had a big thundershower, but I put my hay on the dryer late the next afternoon before another rainstorm hit us that night. Unfortunately, it rained for the next three or four nights, all night

[*Turn to page 74*



This A-frame haymow dryer costs about $100 less than the slatted-floor type. This dryer is especially good when used in high, narrow haymows. It is easy to build, too

The most common homemade hay dryer is the slatted-floor type shown above. This dryer is built in only half of the haymow. This dryer cured 40 tons of hay last year



He's not worrying about security

And it's right that he shouldn't be . . . in fact he shouldn't have to worry about security for the rest of his life.

Of course it'll take some planning to banish security worries, planning you have to take care of now, that he'll have to shoulder later on. But planning *can* give him security.

He can be assured now of a good start in life if your insurance program includes provision for his college education. He can be assured, too, of income for the family after you have passed your best earning days, or in case anything were to happen that would leave him fatherless.

Adequate insurance protection for those close to you gives so much for so little that it's every man's duty to make sure his and his family's insurance coverage is fully sufficient.

THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE UNITED STATES

THOMAS I. PARKINSON · PRESIDENT

393 SEVENTH AVENUE • NEW YORK 1, NEW YORK

DELCO-REMY
TRACTOR ELECTRICAL EQUIPMENT

A Delco-Remy equipped tractor is always ready for the job. It starts at a touch of the starter button—no time wasted, no hand cranking.

It's ready to work at night when you want to take advantage of a break in the weather. Delco-Remy electrical equipment provides ample current for tractor lighting.

One thing more. When your tractor is Delco-Remy equipped, you know that each electrical unit is specially designed and built for tractor use . . . built to stand up.

Delco-Remy is the pioneer and the world's largest manufacturer of farm tractor electrical equipment.

You can get Delco-Remy tractor electrical equipment on any of these tractors: Allis-Chalmers • Avery • Caterpillar • Cletrac • John Deere • Ferguson • McCormick-Deering • Oliver • Minneapolis-Moline • Silver King

Delco-Remy tractor electrical equipment is supplied by the tractor manufacturer. Delco-Remy parts and service can be obtained through your tractor dealer or through United Motors Service stations.

UNITED SERVICE MOTORS

DELCO-REMY

PIONEER MANUFACTURER OF TRACTOR ELECTRICAL EQUIPMENT

Hay dryers

[*From page 72*]

long, and my neighbor spent the damp daytime hours turning his hay to try to dry it out. He didn't get any milk out of that hay—finally had to burn it."

Mr. Hill continued his talking on the value of the dryer. His 20 Holstein milkers dropped their production 100 pounds of milk a day when he ran out of mow-cured hay and began feeding field-cured hay. He attributes part of this drop to the fact that the mow-cured hay was the early cutting. This cutting was worth up to 40 percent more in terms of cans of milk when compared with late-cut, stemmy hay. The field-cured hay was the second cutting.

To further support his argument in favor of mow-dried hay, this dairyman referred to tests at Cornell and other experiment stations. These tests proved that the barn-drying method produced more milk per acre of forage than either hay-crop silage or field-cured hay.

Now let's look at Mr. Hill's breakdown on that $450 dryer. Not counting his labor for a few days and the lumber from an old barn, here are the figures: $200 for a 36" fan, $50 for wiring, and $200 for a 5-hp motor.

Although Mr. Hill remarked that his carpentry wasn't up to par, his handiwork looked good to me. More important, his efforts made it possible to dry 40 tons of hay. The power cost added up to $36—slightly less than $1 a ton.

A similar experience story is told by Erhard Anderson at Dryden, New York. His 32'x40' system built in one end of the mow is slightly larger than the one on the Hill farm. Because of this, he put in a 48" fan and a 7½-hp motor. He figures his total cost at $650. The lumber came from his own woodlot, and he and his hired man did the work.

Last summer, Mr. Anderson put long hay—mostly Ladino and timothy—20 feet deep on the dryer. He also dried some baled hay. This season he plans to chop most of his hay to save labor.

Mr. Anderson, like many of the other farmers I talked with, put his hay in the mow with a moisture content ranging from 40 percent, which is recommended, to a soaking 60 or 70 percent.

At the latter percentages, the hay must be put on the dryer in small amounts. Hay with a 40- to 45-percent moisture content cut at 10 o'clock one day normally would be ready to put on the dryer at 10 o'clock the next day. General practice, however, is to cut hay in the morning and put it on the dryer late that afternoon.

Both Mr. Hill and Mr. Anderson built the slatted-floor system which is the most popular type mow dryer in New York State. It consists of a large propeller fan to supply the air, an electric motor to operate the fan, and a main duct with a section of slatted floor on each side for moving air at the bottom of the mow.

How fast the hay dries, of course, varies with the amount, humidity, and temperature of the air. Also the depth, moisture content, and type of hay put on the system. You will get the most efficient use of the air if hay is put on the system at the rate of 2 to 4 feet a day, up to a depth of 18 to 20 feet for long hay and 12 to 14 feet for chopped hay.

If you want to build one of these dryers, be sure your mow floor is airtight and strong enough to support mow-cured hay. This hay is more dense than field-cured hay and, therefore, more weight is likely to be put into the same mow space. If there are cracks or holes in the mow floor, you can follow Mr. Anderson's procedure. He put roofing paper over the floor as a temporary measure. One more suggestion: don't close up the mow. Leave doors, windows, or roof ventilators open.

Although most of the mow-curing systems in the state of New York are the slatted-floor type, at least two farmers, Zelner Staughton and Howard Cuykendal of Newark Valley, have made what they call an A-frame.

It's a low-cost, open A-shaped tunnel leading off the fan housing. They used 2x4's and covered them with chicken wire. For a high, narrow mow and long or chopped hay, the arrangement works fine, and it can be built for about $100 less than the slatted-floor type.

If you have a large dairy farming operation, you may want to consider putting in a mow dryer in one barn and use the other barn for field-cured hay storage. That's just what Frank Taylor and Ray DeHart of Cortland, New York, decided to do. Mr. Taylor, who has 70 milking Holsteins and 60 head of young stock, figures that his two units in the one barn will pay off in three years.

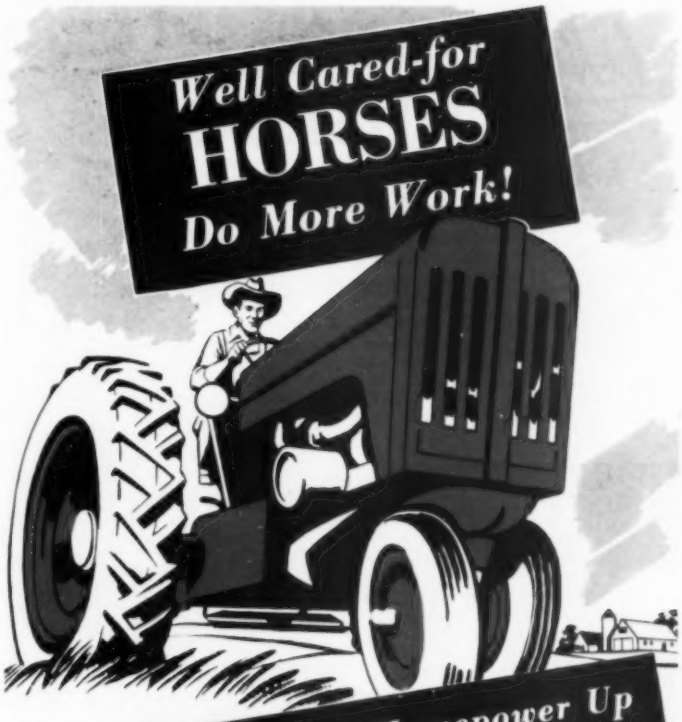
Since Mr. Taylor began feeding mow-cured hay he has been able to cut out one grain feeding a day. That actually amounts to a 40-percent reduction. And his milk production was up a little.

"This is the easiest milk we've ever made and we attribute a large part of a higher margin, even though milk prices are lower this year, to mow-cured hay," Mr. Taylor maintained.

The comments of Mr. DeHart, who has 50 milking Ayrshires and 35 head of young stock, practically paralleled those of his neighbor. "We figure we make an extra can of milk a day from our herd with mow-cured compared with field-cured hay. And we feed 25 percent less grain. We put the two units in last year; each unit cost about $600; and by June 1 they won't owe me a thing."

If you believe that your haying operations warrant a mow-curing system, you don't need to shell out a great deal of money. See your county agent or extension service agricultural engineer for design ideas to fit your situation. Build an inexpensive unit yourself in one part of your mow. Then expect these dividends:

1. Fewer weather worries. You can save two days of field curing early in the season, reduce sun and rain damage.
2. More milk production per acre.
3. Increased amount of protein. Hay can be cut earlier at the time when the protein content is greatest. The loss of leaves will be slight.
4. A larger amount of carotene (Vitamin A)—approximately double that of good field-cured hay.
5. About 50 percent more mow capacity. The moist hay packs tighter.
6. No fire hazard from spontaneous combustion because the hay is kept cool.
7. Cooler working conditions in mow.
8. Improved distribution of farm labor. The haying season can be extended to include days adverse to normal haying.
9. A better second cutting because the first cutting can be harvested earlier in the season. **END**



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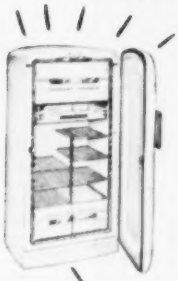

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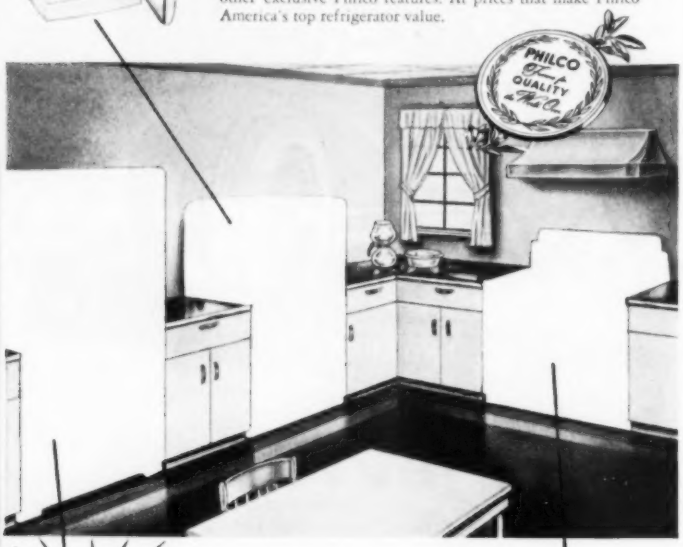

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Tax-free margarine

[*From page 33*]

fees for manufacturers, wholesalers, and retailers. The removal of the federal tax lets the margarine industry hang its clothes on the hickory limb, and maybe get into the water about up to its knees.

This is merely one round of a 15-round bout; the round clearly goes to margarine, but there are other rounds to be fought. There will be another bitter round fought if the price level drops further. A declining price level would carry down prices of all products, including dairy products. If this happens when the margarine tax is removed, tax removal would be blamed, even though it had not been the cause.

In the second place, margarine plays second fiddle to butter, even when free of tax. Margarine production is dependent on butter production, not the other way around. Consumers prefer butter. This is true not only in the United States, but throughout the world. Margarine is priced at about half the price of butter. Use of margarine is less than butter; in 1949, margarine consumption was about 5.7 pounds per person compared with 10.3 pounds for butter. Actually, butter producers probably have less to fear from tax removal than they think.

Here's the basic situation on butter and margarine production: The nation's dairymen produce a given amount of milk, depending on the number of cattle and the feed supplies. The first priority on this supply is held by milk for fluid consumption. It pays the highest price and takes all it wants. Then come the lesser claimants, paying a lower price—ice cream, evaporated milk, and cheese. At the end of the line is butter; it pays the lowest price, for whatever milk is left.

This butter is put on the market, to sell for whatever it will bring. The amount of butter is never enough to spread on America's bread, butter the peas and potatoes. Margarine fills the gap.

Total per-person use of butter and margarine combined is quite stable. The American consumer wants a certain amount of fat in some form. Margarine production can be easily expanded or contracted to serve as a shock absorber. Margarine's 1940-1948 expansion was not an "invasion into the butter market"; it was a move into a vacuum left by declining butter production. As our population grew and as our use of fluid milk increased, less and less milk was left to be churned into butter. We drank our butter instead of eating it. High prices and incomes during recent years speeded up the change. The same thing happened during World War I.

When prices and incomes declined after World War I, use of fluid milk declined, and therefore butter production increased. As a result, margarine production fell. A similar change is already under way. If declining prices and incomes should accompany tax removal, it is entirely possible that margarine consumption would *fall* rather than *rise*.

The perplexing question is, "How much would the price of butter have to fall in order to move the supply in the face of stronger margarine competition?" If the price of butter were free to change, it would fall noticeably—nobody knows how much. Perhaps it would fall by even less than the amount of the tax.

One problem is that the government is pledged to support the price of butter. In 1949, the Department of Agriculture purchased 115 million pounds of butter, or about 7 percent of a year's supply. With tax removal comes a weakening of the price of butter and further pressure for piling up storage stocks.

Tax removal would be largely offset for the consumer if price supports remain high. Normally, tax removal would result in lower prices, but the support program would cancel this effect.

The dairyman might believe the support program for butter would help him, but a little figuring might show him otherwise. In the short run, he gets a higher price as butter is kept artificially scarce and expensive. But while this is going on, margarine has been given the green light by tax removal. It can sell at a low price, and with butter supplies held down, it could really expand. Dairy farmers would find they had "priced themselves out of the market" and that margarine had taken the customers.

If the price-support provisions are somehow lowered, and the price of butter falls low enough, some dairymen would shift to other lines. These would be the dairymen who weren't sure they should be in the dairy business anyway. The supply of butter would fall, and margarine output could expand to fill the gap. Dairy production as a whole is not very responsive to price changes, so dairy output probably would be fairly stable at least for a while, even without the tax.

What is likely to happen to the price of colored margarine? Only guesses are possible. But it does seem likely that colored margarine will drop somewhat for the 60 percent of the consumers who can buy it legally. It probably will drop somewhat less than the amount of the tax; for a time the making of margarine may be rather profitable. Over any length of time, competition between margarine producers will drive the price down to the cost of production, plus enough profit to keep the business going.

What are the chances of expanding margarine production? It can be done rapidly in the short run by bidding oils away from other users. It's a bit disturbing to think that margarine, soap, and vegetable shortening can all be made from the same products, but it's true. Margarine can pay a high price for its raw material. It has a prior claim on the oils in much the same sense that milk for fluid use has a priority on the milk.

Of course, margarine manufacture can expand only so much before the over-all supply of oils gets short. But more oils

[*Turn to page 78*

SUCCESSFUL FARMING

"He says he lives in a trailer and his home ran away from him."

FARM TIPS FROM SAM PHIPPS

"I WANT TO GET 100% ON THIS SAFETY QUIZ!"

"According to the National Safety Council," Sam points out, "there are at least 102 different farm hazards that kill thousands every year. Well, I'm going to cut down everyday dangers on my farm so I can answer 'Yes' to all the Council's safety questions."*

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BIG YANK DIVISION RELIANCE MANUFACTURING COMPANY
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Tax-free margarine [*From page 77*]

could be produced if the need arose and we were willing to shift acreages some. The chief suppliers of raw material for margarine have been cottonseed oil and soybean oil. Any expansion would logically come from soybeans, as cottonseed is a by-product of our declining cotton production and is not likely to increase. Soybean production has expanded enormously and could expand still further. This year, for example, an effort is being made to reduce corn acreage about 20 percent in the commercial area. If that goal is only half reached, and if one-third of these acres should be planted to soybeans, we'd have 16 percent more soybeans. If the oil from these extra soybeans all went into margarine, its output could increase about one-third. Clearly, the supply of suitable oils is hardly a limitation on margarine. (And offshore U. S. possessions annually produce large quantities of coconut oil.—Editor)

But soybean producers should not become too optimistic. Tax removal doesn't necessarily mean higher-priced soybeans. More than half the value of the soybeans is in the meal, and more beans could result in burdensome supplies of meal. That, in turn, would depress the price of soybeans. And only a part of the soybean oil (18 percent in 1948) is used for margarine manufacture. The fate of the soybean does not depend on margarine alone.

Will the removal of the tax affect the producers of milk for fluid consumption? For many years the price of this milk has been based to some extent on the price of butter. But as butter becomes less important, milk for fluid use and milk for butter have come to be priced to an increasing extent as separate commodities. And because butter's influence on the price of milk is diminishing, and as butter prices aren't likely to drop sharply, it is unlikely that tax removal would have very bad effects on the price of milk for fluid consumption. If it did, the pricing formulas for milk in the major markets probably would be rewritten quickly.

The price of milk for cheese and for evaporated milk, however, probably will share the fate of butter to a much greater extent. These products bid against butter for the milk supply, and cannot be divorced from butter to the same extent as milk for fluid consumption.

To summarize, then, this is about what can be expected in agriculture as a result of tax removal:

A dairy industry which will survive, healthier than before, if the industry is alert and makes the changes called for.

Flurries in the market until conditions get settled.

Discouragement for producers of milk and cream for butter, cheese, and evaporated milk. But other alternatives for these producers.

A scare—but no real alarm—for producers of milk for fluid consumption.

Encouragement for soybean producers.

A headache for the government price supporters.

What of the effect on the consumers? For the 40 percent of them who live in states where the sale of colored margarine is illegal, the only visible change will be a slight fall in the price of butter, and that only if the government support policy is modified. The price of white margarine is not expected to change much.

For the other consumers who are allowed to buy colored margarine, both the price of butter and of colored margarine can be expected to fall, but perhaps by less than the amount of the tax. **END**

The farmer's Washington [*From page 22*]

Most leading Republican agricultural experts hurried to get out from under this one. There is practically no chance the Republican party will endorse it. To most agricultural specialists, it seems to out-Brannan the Brannan Plan.

Lovre has one, too. Harold Lovre, Republican congressman from South Dakota, feels that way too, and has introduced his own idea. It's a first cousin to the Beck plan, and also calls for no less than 100 percent of parity.

Lovre describes his plan as self-financing. You could raise any amount of any crop you wished, but could not sell over a certain amount without buying extra marketing quotas. Critics take a rather cynical view of this, and say they can't see the difference between "buying" a marketing quota, and paying a fine—as Mr. Brannan's plan would call for.

Farm Bureau. The American Farm Bureau Federation is notable by its absence among the sponsors of new plans. As you know, Farm Bureau had a big hand in writing the 1948 law, which was replaced by the 1949. It had important objections to several parts of the 1949 act. But it takes the position that the best thing to do, now, is give it a fair trial and repair it where necessary, instead of tossing it bodily into the street and starting off on another tack.

Farm Bureau still firmly believes flexible price supports are the key to building an animal agriculture. It leans strongly toward marketing agreements and some sort of food stamp plan to channel surpluses where they are needed. It has no "Farm Bureau Plan" as such, but does have a very definite list of principles it feels should be in any plan. And it is querying its membership in every county in the country to learn today's farm thinking.

What will happen to all these plans? During this session of Congress, probably nothing. Everyone agrees on that.

Farmer left on fence. But you're making plans for next year's crop and setting rotations or borrowing money for crops two, three, and more years ahead. Your ability to pay off a mortgage depends almost as much on the 1955 crop as on the 1951. What's the government apt to do?

No one knows. That's the price agriculture is going to have to pay for letting its problems be maneuvered into party politics. It is going to take a lot of clear thinking and hard work to try and get agriculture's problems solved on their merits. If we don't watch out, we'll get the farm program which is calculated to deliver the most votes from some key city's third ward, rather than the program which best serves the nation. **END**

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Bell telephone people well know the value of the telephone to the busy farmer. They know he needs it – and wants it. That's why they're continuing their all-out effort – why they're putting in rural telephones at the fast rate of 1000 every workday.

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These crews have the skill, the tools, and the experience to do the job well – and that's one big reason why the proportion of farms with telephones in this country is the highest in the world.

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3 quarts ripe strawberries
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Crush larger berries to a pulp but leave smaller ones whole. Place in large saucepan over high heat and add PEN-JEL. Bring to hard boil. Stir in sugar. Bring to full rolling boil; then boil hard for 2 minutes stirring constantly. Remove from heat, stir until jam begins to thicken. Ladle into jars and seal. Your jam will be soft and tender with a bright sparkling color—and sprinkled throughout with luscious whole berries! Ummm what a treat for any family!

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Pen-Jel is made from natural *apple* pectin, the same thing grandmother used to make better jam and jelly! Pen-Jel does away with long wasteful cooking that "boils away" flavorful juices . . . giving you 50% more glasses for your fruit and sugar!

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How to live with the sun and the heat

[*From page 26*]

Heat cramps usually develop in those who work indoors in high temperature and who perspire profusely. The resulting loss of salt from the body causes cramps. The onset is sudden with painful cramps of the abdomen or limbs. This condition may last for about 24 hours, but rarely more than that.

For heat cramps, do this: Have patient rest in a cool place. Apply warm cloths or a hot water bottle to the abdomen. Relief should come quickly; if it does not, give the same care as for heat exhaustion.

Sunburn is another consequence of too much exposure to the sun. However, one may be sunburned on a cloudy day. Sunburn is a real burn, and in its effects it is just like any other burn. Mild sunburn can be painfully uncomfortable, and severe sunburn which covers a large portion of the body is dangerous. It may cause stomach and intestinal disorders and sunstroke.

Serious sunburn usually is avoidable if exposure to the sun's rays is brief until tanning has begun. If a person must be out in the sun for any length of time before he has acquired a coat of tan, clothing should be worn. The oils and lotions on the market for the prevention of sunburn also are helpful.

For sunburn, do this: Apply baking soda and water, a burn ointment, tannic-acid jelly, or calamine lotion. When you purchase the calamine lotion, have druggist add enough carbolic acid to make a 2-percent solution. If the burn is severe and extensive, or if there is a fever, call a physician.

It is wise to keep in mind that severest effects from the heat and sun are suffered by old people and infants in their first year of life. Also, those who are very much overweight or in poor health are most likely to suffer from the effects of heat, especially in long-continued hot spells. Regardless of your age and condition, you can be most comfortable in hot weather if you will observe the few rules given on page 26. **END**

SUCCESSFUL FARMING

"Found a worm yet?"

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How one farm church paid off its debt

[*From page 30*]

the Good Hope men appointed seven, in addition to the planners who handled the soliciting and publicity:

1. Fence and Tent Committee. They built pens and fences for livestock and put up a large tent for display of appliances. They erected a sturdy platform where the equipment was auctioned off.

2. Livestock and Donated Articles. This group supervised the loading and unloading of items given for sale.

3. Checking-in Committee. These men booked and tabulated each item and signed contracts with each person who brought articles on a percentage basis. They evaluated merchandise and recorded cash gifts given.

4. The Parking Committee. A churchboard member opened his cornfield near the church for a parking area, and this committee directed the traffic.

5. Reception Committee. This committee, headed by the Reverend Mr. Frank, conducted visitors around the remodeled church.

6. Checking-out Committee. No item could be removed from the premises until this committee had received a card showing payment had been made.

7. Police Committee. Some of the younger men of the church served as guards over sale items.

On the day of the auction, cars began to pour into the parking space in the morning. Bidding began at 10:30. The spirit of the bidding soon caught on, and merchandise began to move.

One of the new cars was bid up to within $10 of list price. Two bidders wanted it, so the dealer who had offered it on percentage sold each of them a like model and gave 7½ percent of the profits to the church. About 1 o'clock a box of roosters was put up for sale, given back, and resold until it brought in $80. In the middle of the afternoon, just for fun, someone brought in a mule. It was sold and resold until it netted $117.

One committeeman brought a fine dairy cow to the sale and bought it back himself, paying a good price for it and donating the amount to the church.

Even the minister's 5-year-old son, David, got interested in the sale when a Bantam mother hen and her six tiny chicks went on the block. As a joke, some farmer friends outbid the minister, then presented the Banties to little David.

The sale was a social affair as well as a fund-raising project. The Women's Service Unit served homemade soup, sandwiches, and hot coffee all day. At noon they cooked a good dinner.

Everyone helped. The newspapers in nearby towns ran big ads and printed thousands of sale bills free. A flying-farmer friend of the church scattered the bills from his plane. The auctioneers gave their services, and an Algona bank clerked the sale. The County Fair Board supplied the big tent, and the Highway Department loaned thick planks for its floor. A local creamery provided hot water in cream cans for the kitchen.

The key to this success was the spirit of the congregation. As a local editor remarked about the sale, "It was like a steam roller. When the bidding got started, the committee had a tough time putting on the brakes." **END**

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VEL* reduces bacteria counts...

Cleans milking equipment cleaner...faster...easier!

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And Vel's so much faster . . . so much easier to use! Vel flushes out the milk fat and milk slime—prevents milkstone from forming in equipment. Vel cuts brushing to the minimum!

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...they clean so fast...so thoroughly! Not a soap, not a bactericide, Vel, a neutral soapless suds, is recommended by the makers of Perfection, Farmcrest, Conde and Hinman milking equipment.

VEL CLEANS A SEPARATOR IN TWO MINUTES!

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1. Rinse supply tank with a pint of warm water or skimmed milk to remove the cream.
2. While brushing bowl and spouts, flush machine by running through a pailful of hot water containing a tablespoonful of Vel.
3. Dismantle the machine and, if necessary, brush the discs with Vel solution. Put parts in supply tank and scald.

* Vel is the trade-mark of the Colgate-Palmolive-Peet Company.

VEL cuts dishwashing time in half!

Dishes and Glassware Gleam Without Wiping!

Wash your dishes with Vel, rinse them, and even your glassware will dry sparkling clear. Vel leaves no soap scum or streaky film to polish away—cuts grease faster and more completely than soap possibly can—leaves no dishpan ring to scrub out. Vel cleans dishes cleaner than soap and saves up to half your dishwashing time.

BUY VEL FROM YOUR REGULAR GROCERY DEALER

Take soothing
Pepto-Bismol
and feel good again!

Never upset an upset stomach! Don't add to the upset with overdoses of antacids or harsh physics! Take soothing PEPTO-BISMOL*. Its action is *different*. PEPTO-BISMOL spreads a soothing, protective coating on irritated stomach and intestinal walls—gives fast *3-way relief*:

1. Helps calm and quiet the upset.
2. Helps retard fermentation and formation of gas.
3. Helps sweeten and settle the stomach.

A NORWICH PRODUCT

ECZEMA-LIKE RASHES?
Don't scratch them

Scratching only leads to *more* scratching—and possible infection. Apply soothing, antiseptic Zemacol lotion.

Zemacol quickly helps relieve the itching and burning of eczema-like rashes, poison ivy or oak and many other skin irritations—kills germs, bacteria and fungi on contact.

And Zemacol is invisible in use—greaseless—stainless—doesn't show on your skin. Sold with the money-back guarantee of The Norwich Pharmacal Co. At all drugstores.

***If it itches at all, use* ZEMACOL**

Successful

SHORT CUTS

Build them yourself, save time and dollars

Upright ducts, set on lateral duct openings, dry deep-piled hay for Clarence Bengston, Orfordville, Wisconsin. Duct sections are lifted as the mow is filled, leaving square hole in hay. Duct then serves as plug at the top

Combine jack, built by Paul Smith, Dekalb County, Illinois, is handy for unhitching. Jack swings out of way when not used

Windmill fins, welded to a disc-harrow wheel, are used by Jim Bradley, Bates County, Missouri, for cooling milkhouse. Safety screen of wire mesh fits over front of fan

Pony cart was built from 500-pound grease barrel by Ben Thompson, Beach, North Dakota. Cart is open at rear and sharp edges are covered by split garden hose clamped tight

Twenty-foot trailer built by Clayton Gleckner, Fulton County, Ohio, replaces a regular strawberry-packing shed. Pickers bring filled trays to the trailer where berries are crated and loaded on a truck. Trailer can be pulled anywhere in field and cuts down the time formerly spent in delivering the strawberries from row to shed END

"A Miracle" IN STORM-FLATTENED CORN AND SORGHUM

"WOULDN'T HAVE HAD ANY FEED IF IT HADN'T BEEN FOR OUR CASE HARVESTER"...

"ONLY FIELD-FORAGE HARVESTER THAT WOULD PICK UP FIELDS LAID LOW BY WIND AND HAIL"...

"On Aug. 28, 1949, the country between Topeka and Kansas City, Kansas, was hit by a severe wind and hail storm that everyone thought completely ruined all corn and sorgo for silos. . . . We decided, when we saw what was left of the corn fields, that our silo-filling season was over," says Robert Peterson in a letter about his Case Forage Harvester.

"However, the owners of these fields were desperate so we started in. . . . The corn and sorgo were laid flat on the ground . . . you couldn't see which way the rows ran. . . . The way this Case handled these fields was a miracle. . . .

"We had to work fast because the material began to rot and sour rapidly and the owners pushed us to get it in the silo. Other makes of harvesters would not pick up these crops and every one was amazed at how we could clean up a field.

"About 10 of these farmers wanted me to write and tell this story . . . said they wouldn't have had any feed if it hadn't been for our Case. We don't think you brag enough on this harvester."

"SIMPLEST FIELD-FORAGE HARVESTER MADE," users say. Simple design uses strong, long-lasting parts—few things to need care. Anti-friction bearings make it last long, pull easy. Two-way delivery pipe loads wagon pulled behind or truck driven alongside. Rope-controlled deflector fills front, middle, and rear. See your Case dealer about it. Be sure to use coupon.

✓ **LIGHT RUNNING.** Makes good use of 2-plow tractor power on the power take-off, yet has the strength and capacity to cut big tonnage with bigger tractors. Also available with engine.

✓ **ONE BASIC MACHINE.** Built to work equally well in row crops or hay crops, with interchangeable units. Simple in design, staunchly built for years of dependable service with little upkeep.

✓ **HANDLES ALL FORAGE CROPS.** Corn, sorghum, soybeans—green, wilted, or cured hay—windrowed straw. Order it with row-crop or windrow pick-up unit, or both. Limited number of cutter-bar units available.

✓ **EASY TO USE.** Over-running clutch lets you get knife wheel up to speed before starting travel. Control lever handy to tractor driver. Can be fitted for hydraulic control.

CASE

PASTE ON PENNY POSTCARD AND MAIL

Mark machines that interest you; write in margin any others you may need; tear out and mail to J. I. Case Co., Dept. F-77, Racine, Wis.

- ☐ Forage Harvester
- ☐ Forage Blower
- ☐ Hammer Mill
- ☐ Three-way Elevator
- ☐ "NCM" Field Baler—Ventilated Bales
- ☐ Heavy-Duty Baler
- ☐ Corn Pickers

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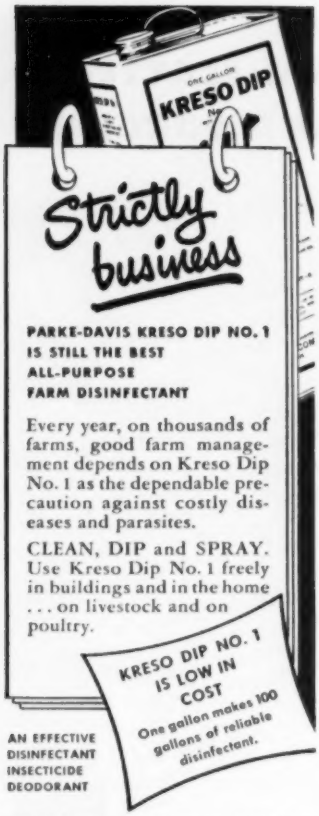

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OVERJOYED! YEARS OF LAXATIVE DOSING ENDED!

"I *had* to write! After 25 years of dosing for constipation, I started to eat ALL-BRAN for breakfast. The results are wonderful!" Andrew H. Truby, Box 42, Woodland, Ill. *Just one of hundreds of unsolicited letters from ALL-BRAN users.* Marvelous results can be yours, too, if you suffer from constipation due to lack of dietary bulk. Eat an ounce of tasty Kellogg's ALL-BRAN daily, drink plenty of water! If not *completely* satisfied after 10 days, return empty carton to Kellogg's, Battle Creek, Mich. GET DOUBLE YOUR MONEY BACK.

The Markts take off from a hilltop

. . . to prove that farm flying can be enjoyed almost anywhere and that it can be profitable as well as fun

By Les Richardson

"High on a Windy Hill" once titled a popular song. It now can be used to describe a farm airfield belonging to Ronald Markt. Undeterred by the usual trend of thought—that an airstrip is *not* feasible in the rolling hill country—Ronald set to work. The results prove he was right in his belief that hill farmers can be flying farmers.

His strip is located 15 miles northwest of St. Joseph, Missouri, and three miles east of Oregon, Missouri. The hilltop is geographically located as 95 degrees 10 minutes west longitude and 39 degrees 59 minutes north latitude. The radio beams from Kansas City and Omaha pass over the farm, so commercial traffic is constant.

When we were approaching the field from the south on our air visit, the cattle and hogs grazing in the pasture airstrip created quite a picture. The hangar literally perched on the very crown of the hill.

As we settled gently onto the strip in a smooth landing, the lack of length was very apparent. Actually, the strip used is only 1,000 feet in length and less than 50 feet in width.

Looking down on the entire field, one can actually see two other strips usable for landing. The main strip runs north and south. The other two strips are running northwest-southeast and northeast-southwest, respectively. We landed to the south on the longest strip and found that the other strips were 600 and 800 feet in length. These are used only in case a strong wind favors one of them.

The Markt hangar is constructed of corrugated sheet metal over rough timber framing. The roof sheds to the west, leaving the door on the east sheltered from the most prevailing winds. Being a practical man, Ronald made it large enough to house the plane and several of his smaller pieces of farm equipment.

Ronald farms some 400 acres of his own and does custom work on several more. In his custom work he must not have too many delays, or the cost gets out of hand. He realized this when he started doing the extra work and made preparations to overcome these obstacles. His equipment was purchased with the thought in mind that he could get repair and maintenance parts whenever he wanted them and quickly. He can fly to Kansas City in a matter of minutes, get the parts, and be back on the job.

The Markt home is up on the hilly country, and the cultivated acres lie in the first bottom of the Missouri River. This causes a lot of extra driving of

[*Turn to page 86*

This view of the Markt landing "field" is from the northeast. Hanger and gas storage can be seen at the left of the center of picture. The dark strip is fall-plowed ground

Will this year's crop be wasted, too?

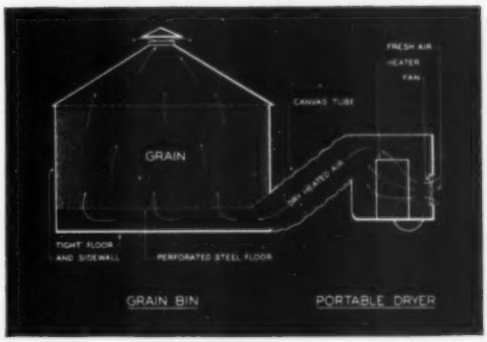
Last year was a costly year for many farmers. Because they lacked proper crop conditioning equipment and storage units, they lost as much as 25% of the crops they produced. Field losses from late harvests, spoilage in storage, rat and insect damage—these and many other hazards ate into their profits.

You can prevent these expensive losses. With the proper conditioning unit you make your own weather for stored crops and can harvest whenever the crop is matured. And dryers with combustion chambers made of Armco Stainless or Armco ALUMINIZED Steels work better and last longer. Both metals resist heat better than ordinary steels.

Farmers learned *last* year that the government will not loan money on stored crops unless they are in good condition. Many farmers found the answer in storage bins and cribs made of Armco ZINCGRIP Steel. They keep crops sound and salable. This *extra*-quality Armco steel resists rust attack and gives lasting protection. Also, Armco ZINCGRIP-PAINTGRIP is used by manufacturers to give you better, longer-lasting farm implements and buildings. It is mill-Bonderized to take paint and hold it for years.

Armco Special-Purpose Steels help make modern farming more profitable. That's why more and more farmers are asking their dealers *where* Armco steels are used in the metal products and equipment they buy. Write to us for information on crop storage and conditioning equipment.

This unit was developed by Armco Steel Corporation to assist farmers in economically conditioning and storing their crops.



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HEADQUARTERS AT MIDDLETOWN, OHIO, WITH PLANTS AND SALES OFFICES FROM COAST TO COAST • THE ARMCO INTERNATIONAL CORPORATION, WORLD-WIDE

Which is really Myrna Loy?

Spark plugs also look alike, but

AUTO-LITE

TRANSPORT SPARK PLUGS

give you lowest cost per mile of spark plug operation

★ **AIRCRAFT TYPE INSULATOR**—improved electrical insulation offers maximum resistance to heat and reduces fouling.

★ **HEAVY ELECTRODES**—give long gap life which contributes to lower service costs by requiring less frequent gapping.

★ **RUGGED CONSTRUCTION**—makes them especially suitable for the most severe types of commercial and farm operation.

IF YOU know your stars of Hollywood, you will identify enchanting Myrna Loy as the girl at the right. The girl at the left is beautiful Edith McCarthy of Brooklyn, New York. You'll be correct, too, when you switch to Auto-Lite Transport Spark Plugs. Money cannot buy a better spark plug.

THE ELECTRIC AUTO-LITE COMPANY
Toledo 1, Ohio **Toronto, Ontario**
Auto-Lite Spark Plugs—Patented U.S.A.

Tune in "Suspense" . . . CBS Radio Thursdays . . . CBS Television Tuesdays

The Markts take off

[*From page 84*]

equipment to and from the valley. To eliminate useless trips over the muddy roads, Ronald will fly down over his lowland farms and give them a quick inspection. In minutes he can tell more about what can be done from the air, than from hours spent on the ground.

All this only constitutes about half of the flying done on the Markt farm. New methods of farming are brought home from distant points by air. Ronald and family take many trips to the surrounding area for farm forums. This gives him a chance to discuss his problems with a wide variety of farmers and get their viewpoints.

The entire Markt family is air-minded. Ronald and Mrs. Markt are the proud parents of a boy, 14, and two girls, 12 and 6. The plane is one of the favorites of everyone concerned. Mrs. Markt accompanied Ronald to last year's Flying Farmers meeting in Fort Collins, Colorado. She served as navigator on this trip, as she so often does. Plans are already made to attend the N.F.F.A. meeting in Minnesota this year. Ronald is one of the directors of the National Flying Farmers Association.

Young Markt, though too young to have a license, likes to help Dad do the flying. (Before long he will take over the controls; Dad will take a back seat.)

Some questions were put to Ronald about weed control by air. On one of his bottom-land farms he raises wheat. Only last year he would have been unable to harvest his crop were it not for spraying weed killer by air. In 10 days after the spraying, he combined the field. He said it would have been impossible to pull through the field before this was done. And he admits that if he had sprayed periodically, the crop would have been even better than it was and the hurried, emergency spraying would not have been necessary.

Ronald was not too worried about

Here the Markts chart a family trip with the children. Mrs. Markt flies as the navigator

spraying for corn borers, though. He claims he has no trouble in first-year corn. When he harvests this corn, he shreds the stalks and plows them under plenty deep. By crop rotation, he then always has first-year corn. Second-year corn has given him some trouble.

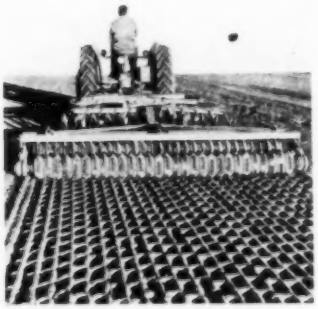
We, however, differ from Ronald and are convinced that a blanket controlling of the borer must be done before our worries are over. That is, all farmers in a community—including Ronald—must spray. Otherwise the unsprayed farm will reinfest the neighborhood.

Last year Ronald raised and fed out 75 hogs. This year he plans on twice that number. Fifteen head of cattle roam the pasture. These raise calves for the near markets and provide the family milk.

We will always be amazed by what Ronald has done in seven years at Oregon. I only hope more of our farm friends can profit by his experience and look to the air for more profits from the farm. And our thanks go to Johnny Ferguson of the Chanute, Kansas, airport for introducing us to the Markts. END

What's new in farming

[*From page 10*]



Soil pulverizer. Preventing erosion is said to be one of the advantages of this double-gang, pull-type implement. The front section breaks up clods and smooths the seedbed. The rear section builds small retaining walls over the surface of the field. These retaining walls serve as catch basins for rainfall, preventing rapid runoff and allowing the moisture to soak into the soil. The pulverizer has an overall width of 10½' and a roller width of 9½'. A leveling drag is available for use between the two sections of the soil pulverizer.—*R. H. Sheppard Co., Inc., Hanover, Pennsylvania.*

Phosphate fertilizers are compared. Raw rock phosphate applied as a fertilizer to the light-colored, low-organic-matter soils of northeastern Ohio has not resulted in as large increases in crop yields as those obtained from superphosphate. In these tests, the two materials were compared when applied in either equivalent rates or money values, and both in combination with manure and alone.

Spray-rig cleaner. A detergent called Nutra-Sol is now in use for cleaning and flushing spray rigs. The detergent is said to be harmless to brass, steel, or aluminum. The cleaner is sold as a soluble powder. *Harang Engineering Co., San Francisco 18, California.*

Finer Hay with Fewer Man-Hours

that's why a NEW IDEA is a good idea!

Hydraulic Lift Model Mower — now available. Adds even greater convenience for raising or lowering cutter bar. Permits positive, easy control of sickle at varied heights from ground.

Sturdy New Idea Cylinder-Pushbar Hay Loader — eliminates threshing, jamming and leaf loss. Saves valuable short pieces. Readily adapted to suit special conditions.

Brand-New New Idea No. 175 Elevator—elevates baled hay fast, efficiently, safely. Handles ear corn, small grains, filled sacks, boxes, etc., at lowest possible cost.

Watch those windrows roll up behind you — formed in a jiffy and just right for drying — when it's a NEW IDEA Side Rake on the business end of your tractor. Tough but non-digging double-curved teeth lift and lay the hay down *gently*. They're shock-absorbing and a snap to replace. They give you top-notch tedding action at the touch of a lever. They work to save *you* work — to protect your hay every foot of the way!

And the tougher the crop . . . the rougher the ground . . . the more you'll appreciate the "extras" built into this reliable 4-bar rake. The extra stamina and steadiness of its rigid trussed-arch frame. The extra-large clearances for freer movement of hay. The extra protection against damage and delay provided by its quick-yielding reel.

Scores of other **extra** advantages are offered in the NEW IDEA Side Rake, and all other NEW IDEA Haying Machines. Exclusive features that spell extra value and savings. Proved advances that assure finer hay with fewer man-hours! Your NEW IDEA dealer welcomes the opportunity to explain them to you. Fully descriptive literature is yours for the asking.

Mail Coupon Today for Free Folders!

NEW IDEA
DIVISION AVCO MANUFACTURING CORPORATION
Dept. 808, Coldwater, Ohio

Send free folders as follows:

- ☐ 4-Bar Tractor Rakes
- ☐ Tractor Mowers
- ☐ Hay Loaders
- ☐ All-Steel Wagons
- ☐ All-Purpose Elevators
- ☐ Manure Spreaders
- ☐ Lime Spreaders
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- ☐ Corn Snappers
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Name _____

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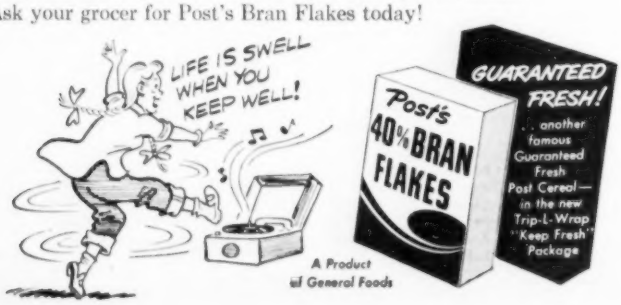
MAYBE IT'S SOMETHING SHE DIDN'T EAT!

Take a new lease on life, Dora! That dull, logy feeling may be caused by irregularity due to lack of bulk in your diet. Try the "ounce of prevention" in a serving of Post's 40% Bran Flakes. Remember, it's the cereal that gives you the three extra keep-fit benefits:

(1) bran to help prevent irregularity due to lack of bulk in the diet
(2) whole-wheat values of these essential B vitamins: thiamine and niacin
(3) good source of these important minerals: phosphorus and iron

And for flavor it's hard to beat. You probably never knew bran could *taste* so downright delicious. Just one mouthful will tell you why they're America's largest selling bran flakes. Ask your grocer for Post's Bran Flakes today!



Answers to farm quizbox

[*From page 13*]

1. (c) is correct. Combustion of minute drops of luciferin makes firefly glow.

2. (c) is correct. The total length of the roots of many large spreading trees is hundreds of miles, reports U.S.D.A. in the yearbook, *Trees*.

3. (a) is correct. Dr. Irving S. Wright, researcher in blood-vessel diseases, reports Tromexan may achieve these results.

4. (a) is correct. Webster reports "bonfire" comes from the word "bonefire."

5. (b) is correct. Three Los Angeles doctors so reported in the Archives of Dermatology of the American Medical Association.

6. (a) is correct. Edward T. Townsend, New York game warden, labels crow as wild duck's worst enemy.

7. (a) is correct. Good memory is one sign of high intelligence.

8. (a) is correct. The Census Bureau reports that 50 women (of every 100) who reach age 30 unmarried finally marry.

9. (a) is correct. Institute of Inventive Research is studying this fattening process at San Antonio, Texas.

10. (a) is correct. Fox hunters report that a fox nearly always turns to his left when chased.

11. (a) is correct. The Merriam-Webster Dictionary reports that tailorbird sews.

12. (a) is correct. Edward T. Townsend, New York game warden, says so.

13. (b) is correct. U.S.D.A. states that some sequoias are believed to be 4,000 years old.

14. (a) is correct. Looks like a weaning-protein problem to this father of three.

15. (a) is correct. Cleveland was both our twenty-second and twenty-fourth president and is counted twice.

16. (a) is correct. Car was built for President Truman.

17. (a) is correct. Census Bureau reports men and women are getting married earlier now than they did 10 years ago.

18. (a) is correct. Though skunks bite each other, their tails are never used.

19. (b) is correct. Canaries are used to detect gas in coal mines.

20. (b) is correct. Soft-shelled turtle has long snout, states Ethyl Corp. **END**

Moving?

If you are going to move, please let us know five weeks beforehand if possible.

Be sure to send your change of address to *Successful Farming*, Des Moines 3, Iowa, rather than to your local post office. Give both your *old* and *new* addresses.

TIPS FROM THE TIMKEN ROLLER BEARING COMPANY ON

Making the most of MECHANIZED FARMING

1. "OCTOPUS" ON WHEELS MAKES QUICK, EASY WORK OF A BEET THINNING JOB

Beet farmers in the Utah area are building carriers like this one to take the drudgery out of beet thinning. The machine permits as many as eight farm hands to "sit down on the job" and get it done faster. Each man sits over a different row of beets and thins the rows as the carrier moves along. Hours of time are saved by this unique mechanized "octopus".

To make the most of mechanized farming, the implements you use should be Timken® bearing equipped. Timken bearings normally need lubrication only once a year. They permit towing of implements at full tractor speed. They reduce wear, help prevent breakdowns and usually last the life of the machine.

2. THIS MACHINE WORKS FOR YOU

Engineers at Timken use this machine to test tractor wheel bearings and seals under severe mud and dry sand conditions. It's one of many ways in which Timken works with tractor and implement manufacturers to develop better, longer-lasting parts. The result is machinery that will do a better job for you.

3. CAN YOU USE THIS IDEA?

Edwin Knight, Greenville, R. I., fruit grower, rigged up this unique fertilizer spreader by mounting a wash tub on the rear axle assembly of an old car. A clutch plate hooked up with the transmission whirls the fertilizer over a radius of 20 to 30 feet as the unit is towed along.

4. HOW TO HAVE AN EYE FOR VALUE

Farm equipment makers are continuously developing new and better implements to make your work easier and more profitable. Equipped with Timken tapered roller bearings these units assure long, trouble-free service. The Timken Roller Bearing Company, Canton 6, O. Cable address: "TIMROSCO".

Tapered Roller
TIMKEN BEARING EQUIPPED

This symbol on a product means its bearings are the best. Look for it when you buy.

NOT JUST A BALL ◯ NOT JUST A ROLLER ▭ THE TIMKEN TAPERED ROLLER ▭ BEARING TAKES RADIAL ⊕ AND THRUST →⊕← LOADS OR ANY COMBINATION

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With Cutter	No. 7W — 7-in.	$2.25
	No. 10W — 10-in.	2.50
Without Cutter	No. 7 C — 7-in.	1.85
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Also world famous original model:		
	No. 7 — 7-in.	1.65
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Dept. F-6 DeWitt, Nebr.

Dan Rumler gets good pigs from a Landrace cross

By Ken McDaniel

When Dan Rumler began to hear things about the good qualities of the Landrace hog, he didn't waste much time in finding out for himself. In fact, Dan was one of the first farmers in the United States to start on a commercial scale. And, after six years, he's still enthusiastic.

Actually, Mr. Rumler, who farms 420 acres in Franklin County, Pennsylvania, doesn't have purebred Landrace. Denmark, land of their origin, sees to it that no purebred stock is exported. However, by breeding boars of 50- to 65-percent Landrace blood to females having Landrace blood, he has managed to produce pigs which are 75 percent pure.

Now then, why does Dan Rumler like this breed? It's because Landrace boars make a nice cross with his purebred Chester White and Chester White-Landrace gilts. The Landrace is noted for lean pork. The sows are good mothers, heavy milkers, and the pigs are thrifty and efficient gainers.

In April and May, Rumler had 35 gilts to farrow. While the final data couldn't be included in this article, these gilts will raise 8 pigs per litter if they run true to previous experience on the Rumler farm.

Mr. Rumler is cooperating with the U.S.D.A. and the Pennsylvania State College in conducting a series of feedlot tests to determine feed efficiency, quality of carcass, and some of the other points which are so important in this day and age of pork production. Of 12 purebred Chester White gilts, 6 were bred to a purebred Chester White boar and 6 to a boar having 65-percent Landrace blood.

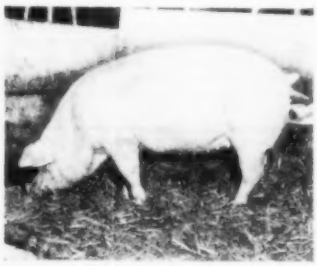
Twelve barrows and gilts will be picked at 56 days of age from each type of breeding. They will go to separate pastures, but will be fed the same rations. Feed efficiency and thrift will be noted throughout the growing-fattening period, and carcass data will be obtained when marketed at 225 pounds.

So far, Rumler has sold 127 boars with varying concentrations of Landrace blood. Some of them went to a hybrid hog firm in Iowa.

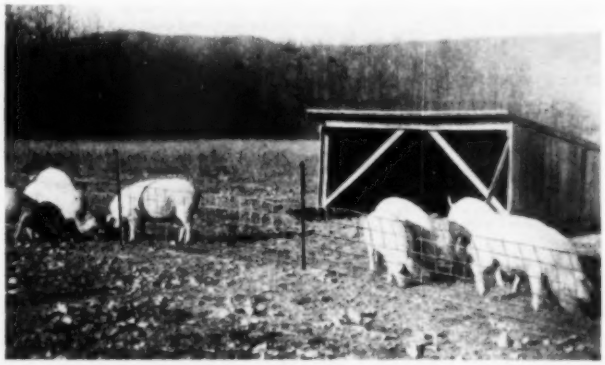
Rumler uses only gilts for farrowing,

[*Turn to page 92*

These two boars, 65% Landrace, are being used by Dan Rumler, Franklin County, Pa.



Gilt, 32½% Landrace and 67½% Chester White, will be bred to 65% Landrace boar



Rumler divides pig pastures into small plots and rotates. This 6-acre piece carries 77 pigs. Portable shelter is shown in background, with Tuscarora Mountain in distance

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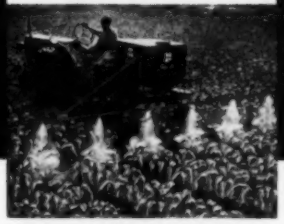
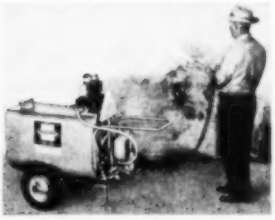


For borer and weed control in corn

For weed control in pastures

For fruit pest control

For livestock spraying



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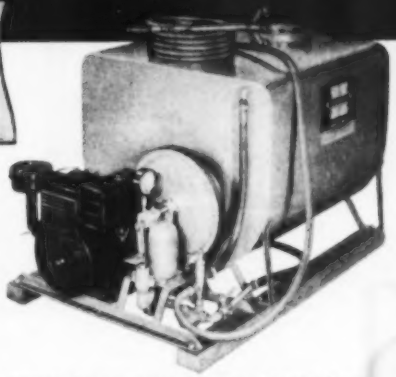
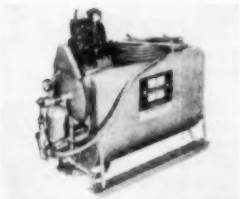
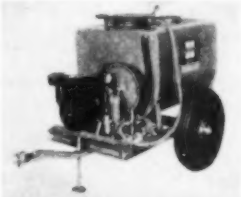


Here's the power sprayer to do ANY farm spraying job! Skid mounted. Use with trailer, tractor, truck, wagon or jeep!

Model shown has 150 gallon tank; develops 800 lbs. pressure per sq. in., delivers 8 gallons per minute. Also available are 150 gallon or 100 gallon sizes, with 500 lbs. pressure per sq. in.; choice of 8 or 4 gallons per minute.



50 gallon tank. Develops 400 lbs. pressure per square inch, delivers 4 gallons per minute. May be used with spray boom or gun; with tractor, truck, trailer or wagon.



Completely self-contained—mounted on pneumatic tires. Timken bearing wheels. 150 gallon tank. Develops 500 lbs. p.s.i.; delivers 8 gallons per minute. Trailer hitch. Ideal for smaller orchards; custom spraying, pastures, wheat, flax, small grain, etc.

Model shown has 50 gallon tank. Develops 400 lbs. p.s.i.; delivers 4 gallons per minute. Also with 30 gallon tank; develops 250 lbs. p.s.i., 4 gallons per minute.

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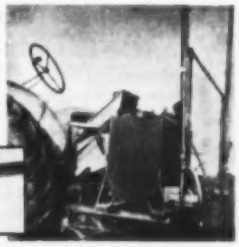

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BUFFALO 2, NEW YORK

Good pigs from a Landrace cross

[*From page 90*]

and for just one litter. In contrast with many farmers who keep sows as long as they are efficient pig producers, Rumler believes that his method is the cheaper way, for sow maintenance cost climbs with each 100 pounds of weight increase.

By keeping gilts for only one litter, Rumler says that he is growing a pig and a gilt at the same time. Instead of taking the pigs away from the mother, he takes the mother away from the pigs. He never weans a pig, for the gilt is sent to market in July or August after farrowing her April or May litter.

After breeding in the winter, the gilts go to a field which the spring before had been sown as thickly as possible with a 50-50 mixture of corn and soybeans. The beans, says Rumler, will wind around the supporting stalks of corn and be available after snow covers the ground.

Bred gilts are self-fed throughout the gestation period. Their ration contains 20 percent by weight of alfalfa meal so that they will not grow too fat. If the rate of gain seems a little slow, Rumler scatters a few scoopfuls of ear corn over a concrete feeding floor adjacent to their shelter. The feeder and shelter are in the barnlot, but, to insure exercise, they travel one-eighth of a mile for water.

Being on hand at farrowing time is one of the basic principles of Rumler's hog-production program. He told about one year when he spent only three nights out of three weeks in his own bed. To make things as comfortable as possible, he has built a 6x9-foot room with a cot right among the farrowing pens.

Rumler is a great believer in pig pastures, not only from the sanitation angle but also from the standpoint of feedsaving. The pastures are divided into relatively small plots, such as the 6-acre piece shown in picture (page 90). These plots are seeded to a per-acre mixture of the following: 1 pound Ladino clover, 4 pounds red clover, 4 pounds alsike, and 6 pounds of alfalfa. He likes this mixture because of its variety and also because the heavier-stemmed alfalfa holds up the Ladino. Seeding is used in a three-year rotation of silage corn, barley, legumes.

Here is a pen of spring gilts which are 75% Landrace, sired by boars shown on page 90

Portable shelters, moved two or three times a season (see picture, page 90), are handy for pursuing his plan of alternating pasture lots. While one piece is being grazed, the others are allowed to rest.

In addition to pasture, the pigs receive a ration of 600 pounds corn, 400 barley, 400 oats, 400 wheat, and 300 commercial supplement. This is fed from weaning till breeding time. For hogs intended for slaughter, the percentage of corn is gradually stepped up to about 50 percent, and the other ingredients cut down accordingly.

The supplement is fed in the form of pellets, which Rumler likes because there is less waste and pigs enjoy the exercise of crunching them. When fattening hogs are in dry lot, they receive a 40-percent supplement, whereas they get a 32-percent supplement while on pasture.

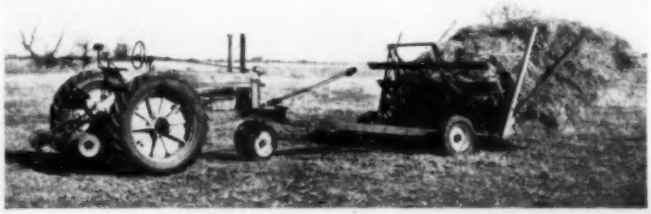
Dan Rumler is definitely soil conservation-minded. The place has been in Mrs. Rumler's family for five generations, and that means the land has been under cultivation for quite a long time. But, thanks to good tillage practices, the soil on this mountain valley farm averages 70 to 80 bushels of corn per acre and makes an excellent home for these porkers. **END**

Easy-hitch buck rake

Easy attachment and no weight on the front tractor wheels are the twin advantages of this buck rake built by M. R. Eighmy, Lancaster County, Nebraska.

Mr. Eighmy fastened a steel hitch on the front of his tractor, so he can attach the rake with a single pin. To fill it, he then drives forward with the tractor, guiding the rake down the windrow. Learning the knack of steering the device is simple, he reports.

When the rake is full, it is lifted with a block and tackle system, getting its power from the tractor power take-off through a converted auto rear end. Mounted at the rear of the tractor, this auto differential has been converted into a convenient hoist.—*Lester Larsen.*



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*Combination of Powerglide automatic transmission and 105-h.p. engine optional on De Luxe models at extra cost.

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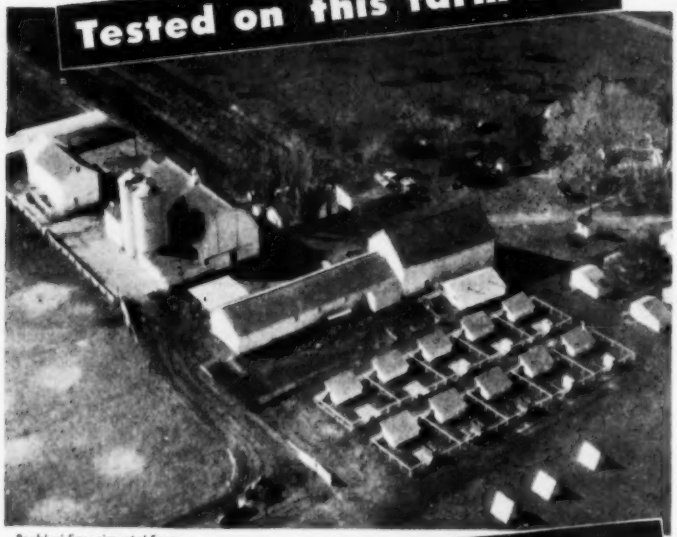

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Cover crops in corn

[*From page 41*]

out well for us in this particular situation. It shows what a cover crop can do," Ricketts says.

Ricketts values his sweet clover crop so highly that he does his seeding on foot. He likes to get the job done following the first good rain that comes after the last cultivation. It is usually the end of July or the first week in August before he gets the seeding done. The clover is covering the ground well by the end of October. By the middle of April it is 8 to 10 inches high and ready to be plowed down.

Cover crops in corn offer every farmer one or more of four major benefits which help to make yields higher and more profitable.

First, cover crops in corn provide a hide of varying degrees of toughness over fertile corn ground for six months of the year, preventing soil erosion and conserving the off-season water supply. Studies made by soil engineers in Iowa have found that in some actual cases the loss of soil on corn ground where a cover crop is used has been reduced between January 1 and July 1 by 3 or 4 tons per acre.

Second, cover crops in corn provide an extra supply of green manure, which quickly becomes added organic matter in the soil. Organic matter is vital to high crop yields in so many ways, and it is especially important in determining the capacity of the soil to hold water against a possible later drouth.

Third, cover crops can provide many pounds of badly needed nitrogen per acre if a legume—properly inoculated—is successfully seeded on sweet soil. Iowa State College men have found that such a legume cover crop can capture from the air and deposit in your soil from 30 to 60 pounds of nitrogen per acre. It takes about a pound of nitrogen per bushel yield of corn; hence if you are able to capture an extra 60 pounds of nitrogen, you have nabbed about enough to raise a 60-bushel-an-acre corn crop. Considering the cost of nitrogen per pound when applied by any other means, this benefit takes on real importance.

Fourth, cover crops on dairy and most other livestock farms can be used to provide extra pasture. Dairy farmers who have seeded rye for cover crops even as far north as central south Minnesota and Wisconsin have found that they can get their cows out on the rye cover crop for lush spring pasture from two to three weeks before their regular pastures are ready.

As matters stand now, successful seeding of cover crops in corn is not easy.

The experience of Myron Wormley, a progressive young farmer near Oswego, Illinois, is typical. He decided two years ago that he wanted to have the advantages of a legume cover crop on his corn ground. He rigged up an endgate seeder and sowed sweet clover seed just ahead of the last cultivation. The cultivator covered the tiny seeds to such a depth that the cover crop failed to come.

However, one of his neighbors had been seeding a cover crop in his corn successfully, so Wormley consulted him and tried again last year. This time he waited until corn cultivation was completed. Then he selected a seeding day just after a good rain, using a high wagon

with an endgate seeder. By November 1, his sweet clover was ankle deep over the entire seeded area.

There are at least two major obstacles which must be solved before cover crops in corn can become widely used in the heart of the Cornbelt. We need some specialized seeding equipment which a farmer can afford to buy and use. And the problem would be greatly simplified if we had some new types of legumes.

Most farmers who are successfully seeding cover crops in corn are either doing it "by hand," as is K. G. Ricketts, or they have had to devise special seeding equipment, as John Wilson has done. Wilson took old drill-type seeder equipment, rebuilt and adapted it to his tractor cultivator. The drills follow a few inches after the cultivator shovels have removed the weeds and stirred the soil into a good seedbed. His method is good, except for one thing.

In areas where temperatures are higher than they are in Wisconsin, and where August rainfall is less favorable, Wilson's method is not effective. That's because in about three out of five years, there won't be enough soil moisture to get the cover crop seeding started. His method works well in places like Lancaster County, Pennsylvania, where summer moisture and humidity are such that a cover crop with a large seed such as rye or barley can get started practically every year. The system doesn't work as well in Ohio and becomes more ineffective as one moves west through the central Cornbelt toward the more dry areas of the Missouri Valley.

The problem in much of the Cornbelt is akin to that of seeding a lawn or wheat crop. General practice is to wait until the time when cooler fall temperatures and fall rains can be depended upon. That means seeding in August rather than June or July. If this is to be done, we shall have to have seeding equipment capable of seeding in full height corn, so you can select a seeding time after or just before a rain which will assure enough moisture to get the cover crop started.

Many approaches to this problem are being tried. Ohio State University has even experimented seeding cover crops in corn from a plane. On a farm near Carroll, Ohio, a plane seeded 140 acres of rye in standing corn in four hours.

Right now is the time to begin to appreciate the advantages you could expect from the use of a good cover crop in corn. This year would be a good time to experiment on a limited scale with cover crops in corn. You might seed, by hand, both legume and nonlegume cover crops to learn the best time for seeding on your particular farm. If you have time in your machine shop, you may not want to wait for possible commercial seeders later but may prefer to do as John Wilson did and build one of your own. The important thing is to get started studying these many problems which must be solved before you can expect to use cover crops regularly on your corn ground.

Of one thing you can be sure. A way to even better farm life in our great Cornbelt runs squarely through the practice of successfully seeding cover crops in corn.

You'll want to make sure that your farm isn't the last to have the advantages to be earned from this new farming practice. Cover crops make money. **END**

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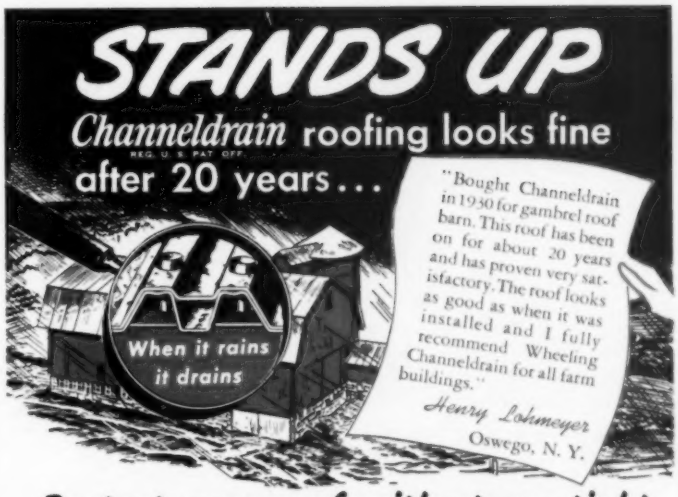

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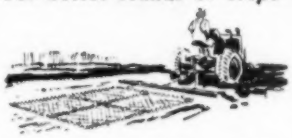

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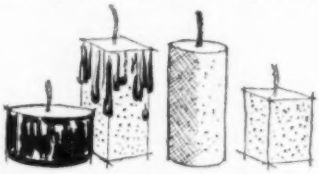
Choose the shape you wish to have your candle. It may be round and squatty as a one-pound coffee tin or rectangular as a can of salad oil; it may



be tall and round (a quart ice-cream container), or tall and square (a paper milk carton). But, whichever you prefer, check the mold for a well-sealed base before you start. This is important, because hot wax, you'll find, has a way of slipping through the smallest crack or weak spot.

Trim any extra surface from the top of a metal container at this point so the candle can be easily removed when finished.

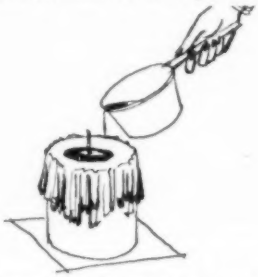
Melt candle pieces in top of a double boiler, but first set aside one long taper to serve as the wick. To prevent discolor, first trim all burned wicks and wipe

black surfaces with a cloth dipped in turpentine. This is particularly important with white candles. Pour melted wax into desired mold.

Insert wick-candle into the center of the mold as the wax begins to thicken. Hold the wick in place for a moment until it is able to stand alone. When the

entire candle is firm enough to remove (a hard top surface will be your cue), gently trim away the paper carton. If the form is metal, hold it under hot water until the candle becomes loose enough to slide. Time now to touch up any chips or scratches with a soft, damp cloth rubbed easily across the surface.

Add interesting texture to your candle by letting drops of wax run down outside and harden into delicate rivulets. On special occasions tie the taper with a



ribbon used in the bridal bouquets and wind fresh flowers at its base. With these same directions, you can turn bits of candle left over from birthdays, Christmas, and other special family occasions into festive "everlasting" candles that will carry happy memories with them into the future.—*Margaret McCormick.*

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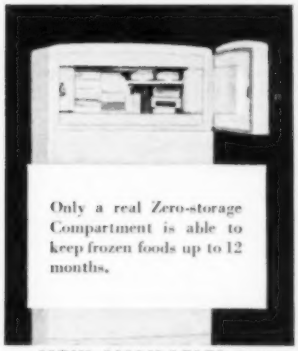
ZERO COLD HERE ↓ **NO DEFROSTING HERE ↓**



NOW AVAILABLE! *FOUR* great Refrigerator-Home Freezer Combinations. *No defrosting necessary in fresh-food compartments!* Uncovered foods *don't* dry out! Deep fruit and vegetable drawers!

Most important of all—G-E dependability!

THIS DOUBLE-DUTY servant is blessed with the famed G-E sealed refrigerating system—the mechanism that ticks off years of dependable performance.

More than 2,200,000 G. E.'s have been in service ten years or longer! Many as long as fifteen, or twenty years or more!

Divide dollars by years and years of dependability—and you'll know why you should see your General Electric retailer today! General Electric Company, Bridgeport 2, Connecticut.

More than 2,200,000 G-E Refrigerators in use 10 years or longer.

GENERAL ELECTRIC

In tears over crusty pans?

BRILLO

gives TWICE the SHINE in HALF the TIME!

New "Scorchy Pan" Tests *prove* Brillo outshines other types of cleansers tested! Gives aluminums *twice the shine in half the time!* A square, metal-fiber Brillo *pad-with-soap* whisks off crust easy! Use Brillo *daily!*

contains JEWELER'S POLISH

RED box — soap-filled pads
GREEN box — pads and cake soap

HERE'S THE SECRET! The gray sealing composition of the Kerr Lid is a can't-be-copied secret. So BE SURE—BUY KERR.

ANOTHER ADVANTAGE! Only KERR LIDS are finished on both sides with food-acid resistant Kerr Gold Lacquer. BUY KERR—BE SURE.

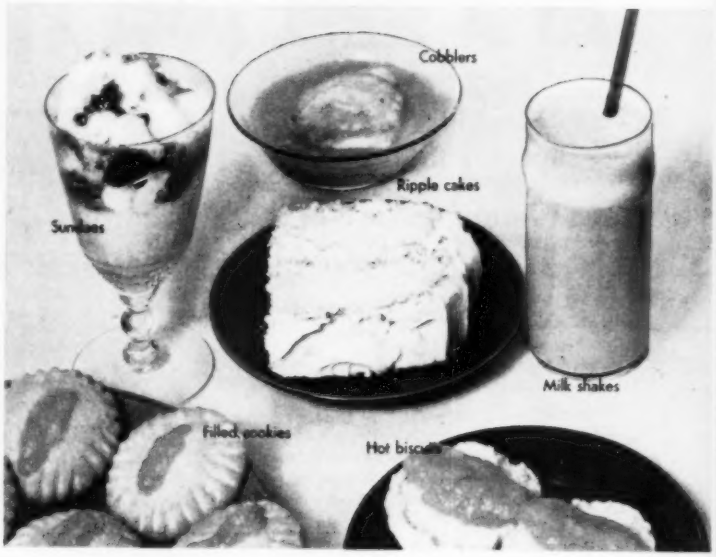
Fit all Mason Jars

BUY.. Kerr BE SURE!

FREE! 32 page book—"Short Cuts to GOOD EATING." New dishes, canning methods, gummed labels, time tables, too. SEND TODAY!

KERR GLASS MFG. CORP.
678 Main Street, Sand Springs, Okla.

How to prepare, freeze, and serve fruit purées



The good word today in preserving is "purées"—freshly picked, crushed, and frozen fruits with all of their natural flavor and sweetness.

One advantage of making fruits into purées is the saving of space in freezer containers and in freezer or locker. Purées are easy to prepare and easy to use, making them real timesavers for busy cooks. They thaw faster than fruits frozen in larger pieces. And there is little, if any, loss in flavor or vitamins during freezing and storage.

All this, plus the fact there's no limit to the ways they can be used to add color and flavor to meals, makes purées the economical means of enjoying out-of-season fruits during winter months.

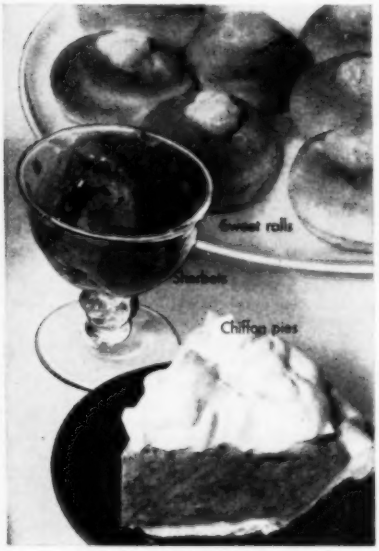
You'll see how easy they are to prepare by studying the chart below. The tips and recipes that follow suggest plenty of good eating ahead.

Preparation of purées

Fruit	Preparation of fruit	Freezing procedure
Berries		
Strawberries Raspberries Blackberries Dewberries Blueberries Gooseberries Currants	Wash and hull fully ripe berries. Crush with potato masher. No blanching or cooking is necessary. Run seedier berries (dewberries, blackberries, and black raspberries) through food press or fine sieve.	Package fruit *quickly* in airtight, heavily waxed or cellophane-lined cartons; seal. Store *immediately* in freezer at 0°. Leave adequate headspace at top of cartons for expansion, allowing ¼ inch at top of pint cartons and ½ inch at top of quart cartons. Label, date, and store.
Other Fruits		
Peaches Apricots Plums Prunes Queen Anne cherries	Wash, peel, and seed fully ripe fruit. Scald in a thin sugar syrup (1 cup sugar, 3 cups water) 2 to 5 minutes. Drain, cool, and crush.	

Delight the eye as well as the taste by preserving "peak of the season" fruits, berries for all-year eating

By Marion C. Ellenwood



Tips for using purées

- In milk shakes for fresh fruit flavor.
- In vanilla ice cream to make a revel.
- As an ice cream sundae sauce.
- Over split, hot biscuits and shortcakes.
- In cobblers, puddings, chiffon pies, and sherbets.
- As fillings in sweet rolls, coffeecakes.
- As a substitute for figs and dates in filled cookies.
- In frozen fruit salads.

Ripple Cake

Makes one 8-inch-square cake

Sift. **2 cups sifted flour**
3 teaspoons baking powder
½ teaspoon salt
Cream **¼ cup shortening**
¾ cup sugar
Add **1 egg**
Beat well.
Add dry ingredients alternately with **¾ cup milk**
Pour half of batter into greased 8-inch-square pan.
Combine **1 cup fruit purée**
1 tablespoon flour
½ cup sugar
⅛ teaspoon nutmeg
Spoon half of purée over batter in pan.
Top with remaining batter, then purée to make ripple effect.
Bake at 375° 45 to 50 minutes.
Serve warm with **rich cream** or topped with **whipped cream.**

[*Turn to page 100*

You can make better Strawberry Jam faster with CERTO!

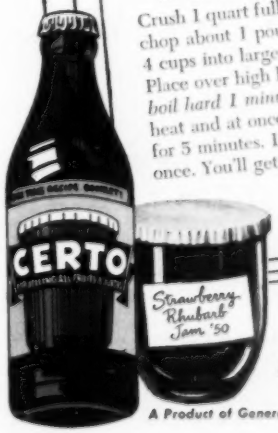
And you get more too!

Oh what a wonderful difference when you make jams and jellies with Certo! More flavor and fragrance—they don't boil away! And it's so much easier, *quicker*—a one-minute boil does the trick! You get 50% more glasses from the same amount of fruit, too. Over 80 tested recipes with every bottle.

Here's STRAWBERRY JAM plus!
(plus rhubarb)
4 cups prepared fruit
7 cups sugar
½ bottle Certo

Crush 1 quart fully ripe strawberries, and slice thin or chop about 1 pound rhubarb. Combine and measure 4 cups into large saucepan. Add sugar and mix well. Place over high heat and bring to *full rolling boil* . . . *boil hard 1 minute*, stirring constantly. Remove from heat and at once stir in Certo. Stir and skim by turns for 5 minutes. Ladle quickly into glasses—paraffin at once. You'll get about ten 6-ounce glasses.

For STRAWBERRY JAM—follow recipe above, using 2 quarts fully ripe strawberries crushed completely—no rhubarb.



There's magic in the word HOMEMADE

A Product of General Foods

Mrs. Smafield shows her family a photograph of her $50,000 check.

WINS $50,000 IN NATIONAL CONTEST

The country's Number 1 prize cook—that's Mrs. Ralph E. Smafield of Detroit, Michigan, winner of the biggest contest of its kind ever held in the United States. Competing against America's top-ranking cooks in the Grand Ballroom of a New York hotel, Mrs. Smafield was awarded the grand prize of $50,000! Mrs. Smafield—who is a busy wife and mother—says, "One of the first things I learned was how important good ingredients are. Take yeast, for instance. I've used Fleischmann's Yeast for 6 years because I know what a fine, lively yeast it is. It's always fast rising and I can depend on it for perfect success."

No doubt about it! Fleischmann's Yeast is made extra active to rise extra fast—made to give you finest results when you bake at home. No wonder America's prize-winning cooks prefer Fleischmann's Yeast to all others.

For friendly help with your building, furnishing or decorating problems, visit the store nearest you offering **Successful Farming's** home planning service. Stores are listed on page 120.

"Goodbye to COFFEE NERVES"

"Since switching to POSTUM I no longer suffer irritability and fatigue due to nervousness—and life's so much pleasanter!"

SCIENTIFIC FACTS: Both coffee and tea contain caffein—a *drug*—a *nerve stimulant*. So, while many people can drink coffee or tea without ill-effect—others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffein—*nothing that can possibly cause nervousness, indigestion, sleeplessness.*

MAKE THIS TEST: Buy INSTANT POSTUM today—drink it exclusively for 30 days—*judge by results!* . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

Father's Day, June 18

HIS NAME "cast in Thick Aluminum Mail Box Plate

This smart, attractive name plate on your mail box will add a real touch of "class." Polished alum. raised letters, black background, both sides. Easily attached . . . rugged . . . durable . . . lasts a lifetime. Send $2.50 check or M. O. and we'll ship postpaid (money back if not satisfied). Or we'll gladly send C.O.D., plus postage, with examination privilege. Quick delivery PRINT NAME. Agents wanted.

SEND ORDER TODAY

McCONNELL BROS. Rt. 3, Springfield 4, Ill.

Make New RUGS from Old Blankets

Complete instructions show how to convert old, worn blankets into beautiful new round or oval rugs. Pictures and step-by-step directions show how to prepare materials, braid with or without braiding tools, join so stitches do not show. Make these handsome, colorful rugs for your home, for gifts, or to sell. Send 10 cents (coin) for "How to Make Rugs" to

KENWOOD MILLS
Box 319, Rensselaer, N.Y.

Fruit purées

[*From page 99*]

Rich Cobbler

Serves 6

Sift together
- **2 cups flour**
- **½ teaspoon salt**
- **4 teaspoons baking powder**
- **1 tablespoon sugar**

Cut in . . . **⅓ cup shortening,** until mixture is like coarse crumbs

Combine **1 well-beaten egg**
- **½ cup milk**

Add to dry ingredients, stirring just until moistened.

Turn out on slightly floured surface.

Pat dough to ½ inch thick and cut with 2½-inch floured biscuit cutter.

Pour . . . . . **2 cups thick purée** (peach, apricot, prune, or plum) in a greased baking dish

Dot with . . **1 tablespoon butter**

Drop individual biscuits over purée.

Bake in hot oven (425°) 30 minutes.

Fruit Chiffon Pie

Makes one 8-inch pie

Soak . . . . . **1 package unflavored gelatine** in
- **¾ cup water** 5 minutes

Add . . . . . **¾ cup fruit purée**
- **½ cup sugar**
- **2 egg yolks,** well beaten
- **1 tablespoon lemon juice**
- **¼ teaspoon salt**

Cook over hot water until slightly thickened.

Cool until mixture begins to set.

Beat . . . . **¼ cup sugar** into
- **2 egg whites**

Fold into fruit mixture.

Pour into 8-inch baked pie shell.

Chill until firm.

Top with **sweetened whipped cream.**

Purée Sherbet

Serves 4 to 6

Soften . . . . **1 package unflavored gelatine** in
- **¼ cup cold water**

Dissolve over boiling water.

Combine **3 cups purée** (strawberry, raspberry, or blackberry)
- **2 tablespoons lemon juice**
- **¼ teaspoon salt**

Add gelatine mixture, stirring well.

Pour into refrigerator tray.

Freeze until firm.

Break into chunks and beat until fluffy-smooth.

Return quickly to cold tray; freeze firm.

Royal Chiffon Mousse

Serves 6 to 8

Whip . . . **2 cups heavy cream**

Fold in **½ cup confectioners' sugar**
- **⅛ teaspoon salt**
- **1 teaspoon vanilla**
- **2 cups fruit purée** (any kind)

Freeze until firm.

Spoon into dessert dishes.

Garnish with **fresh sliced fruit** or **sweetened whipped cream.**

Strawberry Whip

Serves 6

Combine in saucepan
- **½ cup sugar**
- **1 tablespoon cornstarch**
- **⅛ teaspoon salt**

Add . . . . . **1 cup strawberry purée** (or **other fruit purée**)
- **¼ cup water**

Cook until thickened, stirring often.
Remove from heat.
Add . . . . . **2 tablespoons lemon juice**
- **1 teaspoon grated lemon rind**

Pour hot fruit mixture gradually over
- **1 egg white,** stiffly beaten

Beat constantly.
Pour into sherbet glasses and chill.
Serve plain or with Custard Sauce.

Peach Ice

Serves 4 to 6

Mix together
- **2 cups peach purée**
- **½ cup sugar**
- **1 tablespoon corn syrup**
- **1½ cups hot water**
- **3 tablespoons lemon juice**
- **1 teaspoon grated lemon rind**
- **¼ teaspoon almond extract**

Strain and cool. Freeze until firm.

Purée Fruit Salad

Serves 6 to 8

Combine **2 3-ounce packages cream cheese**
- **¼ cup mayonnaise**
- **⅛ teaspoon salt**

Blend until smooth.
Fold in . . . **½ cup heavy cream,** whipped
- **1 cup fruit purée (peaches, apricots,** or **berries)**
- **1 cup diced orange**
- **1 teaspoon grated orange rind**
- **¼ cup chopped nuts**

Pour into tray. Freeze until firm.
Serve on **crisp lettuce.**
Note: This salad is very rich and may be served as a dessert. **END**

Cycle of shoes

These little buttoned shoes of white,
So long ago outgrown,
Reluctantly were laid aside
When babyhood had flown.

Then eagerly supplanting them
Were sandaled patent leather;
And later, shoes of stoutest brown
Tramped all kinds of weather.

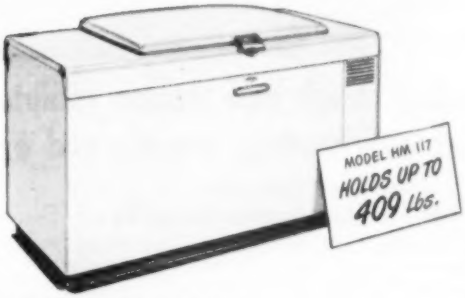
But when red slippers gaily danced
Across a young man's heart,
They quickly changed to silver ones
To coyly play their part

In binding two hearts closely—
Where, down a cool church aisle,
A pair of satin wedding pumps
March in measured style.

—*Grace Sayre*

NEW FRIGIDAIRE FOOD FREEZERS

NEW SIZES... 8.8–11.7–18 cu. ft.



NEW STYLING... by Raymond Loewy

New Frigidaire Food Freezers are now available in a range of sizes designed to meet the needs of most every farm family. Whichever size you choose, you'll find new convenience features—new beauty. All three models are finished in gleaming-white, lasting Dulux.

Lift the counter-balanced cabinet top that stays open in any position. You'll discover ample space for all your own good vegetables, fruits and meats in the extra-large storage compartment! You'll also find that foods are easy to see and easy to reach in the convenient removable divider racks.

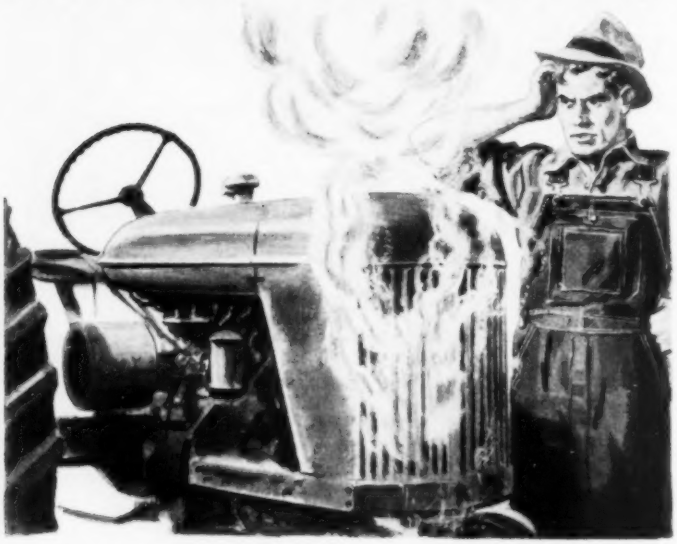
Other quality features include: wrap-around refrigerant coils to assure constant low temperature throughout cabinet—extra-thick fibrous glass insulation—interior automatically lighted when top is lifted—built-in locks in handles—smooth, easy to clean interior—Automatic Signal Light to warn if freezer is not operating normally.

The heart of these food-saving Frigidaire Food Freezers is the Meter-Miser—simplest cold-making mechanism ever built. It's sealed in steel, oiled for life. Backed by 5-Year Protection Plan.

You can't match FRIGIDAIRE FOOD FREEZERS for the Farm

Before it's too late . . .

GET RID OF RUST IN YOUR RADIATOR



Rust clogs truck and tractor radiators . . . causes overheating, trouble and expense!

Clean out rust with

DU PONT Cooling System CLEANSER

Before your car or farm equipment engine is ruined by overheating, clean out rust and scum in the cooling system. Just pour in a can of DU PONT CLEANSER, run the engine for 30 minutes or more, then drain. No reverse flushing is necessary. DU PONT CLEANSER dissolves rust—cleans quickly, thoroughly, safely . . . helps to keep automotive equipment operating at top efficiency.

Keep out rust with

DU PONT Acid and Rust INHIBITOR

After cleaning out the cooling system, you can keep it free from rust all season by pouring in a can of DU PONT ACID AND RUST INHIBITOR. It retards rust formation . . . keeps out acid, too!

Avoid radiator leaks with

DU PONT Cooling System SEALER

You can stop leaks quickly and securely—and help to prevent them in the future—by pouring in DU PONT COOLING SYSTEM SEALER. It will not clog the radiator or harm hose or metal parts.

DU PONT

REG. U. S. PAT. OFF.

Nº 7 PRODUCTS

for better car care

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

He makes money

[*From page 39*]

wiped out his entire herd. As if that weren't enough, a tornado flattened most of the farm buildings. Then, the mortgage holder foreclosed.

John was 38. The Stotzers had 12 children. He cashed in an insurance policy to make the down payment on a worn-out, dilapidated 118-acre farm in the hills of Tuscarawas County. The entire family went to work to make it pay.

There was little income from the farm, so Mr. Stotzer hired himself out to get cash. The money he earned was put back into livestock—and the first purchases were purebred Holstein-Friesian calves. From here on it was a story of hard work and vision in restoring a worn-out farm, which would scarcely keep one cow, to full productivity.

Mr. Stotzer's farming program has always been one of fullest use of livestock. It therefore depended on improved pastures and good hay crops. Liberal applications of lime, fertilizer, and manure have worked wonders on the steep hillsides of this farm. Grubbing out unproductive thickets and weeds and a gradual replacement and repair of the old buildings have completed the "new look" on the Stotzer farm, now christened "Alpine View."

"Alpine View" is one of the outstanding farms of the neighborhood in crop yields and appearance. In 20 years' time the farm has been cleared of debt and increased in size to 300 acres of now highly productive, but still hilly, land. Buyers have offered as much as $60,000 for the operation which John Stotzer built up from a $4,600 farm.

Until 1938, the main farm income was from whole milk and Holstein breeding stock. Thinking the milk processors were getting too large a share of his dollar, John built the Alpine View cheese house and started his own retailing.

That's when John started capitalizing on his hobby of collecting Swiss cowbells. He built up a huge mail-order business in Swiss cheese by getting people interested in coming to his farm to hear the authentic Swiss cowbells tinkling as the cows grazed the hillside pasture. As many as 84 cars during a single Sunday have come to hear the bells and, incidentally, to buy cheese.

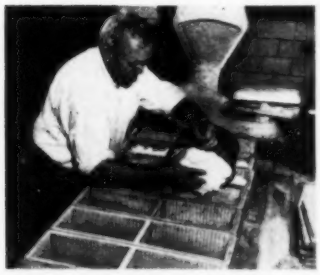
As a boy, he loved the music of the cowbell which every Swiss cow carries. Not the brassy bell which used to adorn "Bossie's" neck in America, but a bell cast from a silver alloy by expert bellmakers in Switzerland. These bells are looked upon as musical instruments and are made to attain the proper tone and resonance.

A daughter had brought a matched set of six bells home from Switzerland in 1936. These attracted so much attention that when son John, Jr., returned from a visit to Switzerland in 1938, he brought home 30 more cowbells. The Stotzer cowbells could be heard for miles around and attracted a steady stream of business. Visitors who came to listen to the cowbell serenade received free samples of homemade Swiss cheese. Before they knew it, many had bought an 8-pound brick of cheese to take home.

[*Turn to page 105*

It still takes the hands of a master to make good cheese. First step: add rennet, then heat

This traditional "harp" of fine wire is used to stir curd, breaking it into small pieces



After whey is sucked off, the curd is scooped into wooden cheese molds and left to drain

Once drained, cheese is moved to storage to age at least 6 weeks, or longer for more flavor

KOWTOWLS

A NEW AND EASIER WAY TO PREPARE YOUR HERD FOR MILKING

STRONG WHEN WET

"I've found Kowtowls good and strong and they don't go to pieces when wet — you can practically scrub with them!" — Charles Lewis of Rock Tavern, New York.

"Kowtowls make it easy to get ready for milking. Just take two pails—one with fresh Kowtowls and with disinfectant solution right down the line with us. I like the idea of using one on a cow and then throwing it away."

SURPRISED . . . AND SOLD ON KOWTOWLS

"I was really surprised to find a disposable, single service paper towel that could be used to wash udders and teats before milking," says Wesner Buckbee of Warwick, N. Y. "I expect to use Kowtowls from now on."

Produce Cleaner, Better Milk

Kowtowls, the new sanitary, single service paper towels make washing and massaging of teats and udders before milking easier, more practical, more sanitary and less expensive.

Easy to Use

To prepare a cow for milking, simply dip a Kowtowl in clean, warm disinfectant solution, wash udders and teats, then wring out Kowtowl for massaging and drying. When you are finished, throw the Kowtowl away.

Save Time and Trouble

That's all there is to it! Send for FREE sample and see for yourself. No more tiresome washing, boiling, sterilizing old-fashioned, hard-to-clean cloths and rags. No wasted disinfectant . . . your solution stays clean . . . good to the last.

Control the Spread of Mastitis

There's no chance of a Kowtowl spreading mastitis from one cow to another during the washing operation. Each Kowtowl is used on one cow and then thrown away.

HANDY FOR YOUR OWN USE, TOO— Users say Kowtowls are a handy thing around the barn for their own use—to dry hands, wipe up tables, carts, etc., and they even find their way into the house. Send for FREE samples.

Endorsed by Veterinarians, Inspectors, Dairymen

Here at last is the practical way to give your herd the added protection of single service washing recommended by veterinarians and inspectors. And for as little as $1.70 per cow a year!

For better, cleaner milk . . . lower bacteria count . . . the grade of milk inspectors want and buy at top prices, use Kowtowls.

Your Milk Plant or Feed Store Has Them

You can get Kowtowls from your local milk plant or at most feed and dairy supply stores. Ask the quality control man at your milk station, or have them leave Kowtowls when they pick up your milk. You can get bundles of 300 towels or a case of 10 bundles.

If You Can't Find Them

We'll gladly send you FREE samples to try out if you can't find them yet in your community. Kowtowls are new and we haven't been able to supply all milk stations and stores yet—but we want you to see what a good job they do. Just send this coupon or a penny postcard. Kowtowls* are a product of Brown Company, producers of Nibroc* Towels for industrial use. *®

GET YOUR FREE SAMPLES

Brown Company, Dept. K-36
500 Fifth Avenue
New York 18, N. Y.

Please send me free Kowtowl samples.

Name _____ Address _____

Town _____ State _____

I buy my supplies from _____

_____ Company

Town _____ State _____

Nibroc® KOWTOWLS®

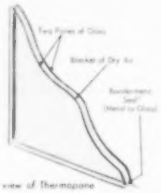
WHY DOUBLE-PANE WINDOWS PAY

in farm buildings

The many farm families with *Thermopane** insulating glass in picture windows can tell you what a difference it makes in their homes. More comfort the year 'round—because *Thermopane's* insulation keeps rooms warmer in winter and cooler in summer. Less condensation on the glass in cold weather because the inner pane of this sealed double-glass unit stays warmer. *Thermopane's* insulation permits the use of larger window areas to bring in more daylight and health-giving sunshine, without excessive heat loss.

Thermopane is now being installed in poultry houses, barns, milk houses and farrowing pens to provide more healthful conditions and to help increase production of milk, eggs and meat.

Thermopane is sold by glass and building supply distributors and dealers. Write us for full information on *Thermopane*. *®



Cutaway view of Thermopane

IN MILK HOUSES—for better sanitation, flood your milk house with daylight. Use large windows, free of cross-members which catch dirt, dust and bacteria. Insulating *Thermopane* windows keep heat *out* in summer and *in* in winter.

Designed by Max LaRock, Extension Agricultural Architect, U. of Wisc.

IN BARNS—*Thermopane* reduces condensation on windows. Windows stay cleaner, transmit more daylight. It also means less moisture running off glass to cause rot or rust. Barns stay warmer, drier, contributing to better animal health, greater production.

IN HOMES—in summer, rooms with *Thermopane* windows stay cooler. In winter, *Thermopane's* insulation keeps rooms warmer, particularly near windows. Because there is less condensation on *Thermopane* in cold weather, you can enjoy your views the year 'round.

Thermopane

MADE ONLY BY **LIBBEY·OWENS·FORD GLASS COMPANY** 3465 Nicholas Building, Toledo 3, Ohio

He makes money

[*From page 102*]

When they ran out of cheese, all they had to do was drop a card to John Stotzer, Alpine View Farm, Mineral City, Ohio, and ask for a brick like the last one. The bill went with the cheese by parcel post. From Maine to California, people who bought Alpine View cheese told friends and neighbors; the business grew until it utilized all of the milk produced by the 50-cow herd.

The cowbells, which now number 70—with only 2 of the 70 alike—still draw visitors like honey attracts flies. The bells range in size from 6 ounces to 18 pounds. A wide leather belt supports the bell around each cow's neck. Some of these belts, which came from Switzerland with the bells, are over 40 years old. According to Mr. Stotzer, many of the Swiss cattlemen insist that Alpine bells have a comforting and quieting influence on the cows. Cows which have worn bells some time become nervous without them. At any rate, I can assure you it is pleasant to sit on the lawn at Alpine View and listen to the tinkling of the bells after the cows have been turned out to pasture in the evening.

> **Blessed is he who has found his work; let him ask no other blessedness.** —*Carlyle*

The cheese formula is a family secret, learned from an old Swiss farmer. John makes the cheese himself, although married daughter Frieda had this job when she was at home. Evening milk from the herd is cooled and added to the morning's warm milk for cheese making. All the fat is left in the milk, producing a rich flavor in a finished cheese. The milk is heated in a large copper kettle. This 300-gallon old-type open kettle is built onto the floor and is surrounded by steam pipes, the sole source of heating the milk to form the curd.

The bricks are allowed to float in a brine, and are then aged on shelves in the storage room for about six weeks before the cheese is ready for sale.

Is it good? Well, any time you can take 300 acres of hard-to-handle hills and turn them into a 30,000-pound-per-year mail-order cheese business—both your cheese and your farming operations must be very good indeed! **END**

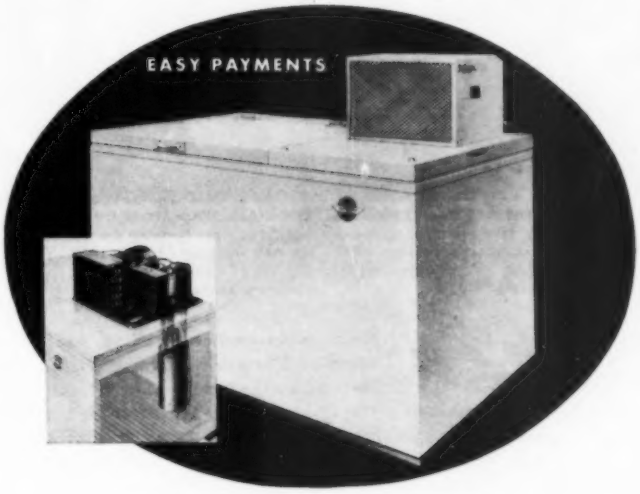
SUCCESSFUL FARMING

"Stop worrying, Jim. You have a representative soil sample if there ever was one."

STILL WATER is fine for some things...

BUT WHEN YOU'RE COOLING MILK MOVING WATER SAVES YOU MONEY

The De Laval Speedway Milk Cooler cools by circulation. Forced circulation of cold water removes heat *faster* than still water. Hence, *less power* is required to cool a given quantity of milk. This saving of power consumption over other types as established by comparative tests *represents real money*. Furthermore, in the De Laval circulating water system *no ice is formed*. 70 to 80 gallons of cold water are circulated around the cans per minute.



The De Laval Speedway "Drop-In" Unit Is Ideal Replacement Unit for Any Make of Cooler

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Keep tractors "on the beam"

Change regularly to new Purolator Oil Filter Refills!

MUCKED-UP FILTERS ARE DANGEROUS!—They just can't give your engine the protection you *think* it's getting—dirt by-passes into your oil. Change *fast* to fresh, clean Purolator Refills.

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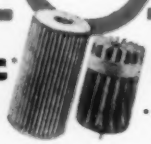

...the oil filter that traps all the abrasives, all the sludge

*Reg. U. S. Pat. Off.

How much subsidy?

[*From page 49*]

subsidies. He'd rather not have any at all.

Why not? Knudson points to his 10-year-old son, Don. "He'd have to pay for them," he says.

"For the life of me, I can't see that the government is any different from the rest of us. It can operate in the red for a while, but the day of reckoning will come."

Mr. Knudson operates in southern Wisconsin, with 266 acres of flat, Rock Prairie land in the home place. There he has about 40 milk cows, 35 feeder cattle, and 150 hogs.

He knows what it means to have a hard time making out. During the depression, he borrowed to pay his taxes, and the banker was still waiting for his money when tax time came around again. He had to fire the hired man and do as much work as he could alone.

This Rock County man hasn't been exactly happy to see farm prices drop during the past two years. But he figures efficient farmers, on good land, with farms of adequate size, will make out.

Mr. Knudson believes that most of the demand for subsidies comes from the ranks of the 50 percent of farmers who produce only 10 percent of the nation's marketed farm products. Located on submarginal farms—meaning too poor or too small or both—they can't get by under their own power except in boom times. But why, demands Mr. Knudson, should the rest of us pay to keep them where they can't make a living?

"It doesn't make sense to carry the inefficient operator on the back of the efficient," he declares.

"It doesn't make sense, either, for some fellow in Washington to tell me how to farm. Regardless of how poor a job I do of it, I can do better than he can. Besides, the Washington man expects *me to pay him*—as well as his local representative—to force me into doing what he tells me to."

Knudson also resents the way in which a farm program can be used as a vehicle for a political machine. He says he saw just how that worked out when he served as an A.A.A. committeeman back in the 1930's, a job he got rid of as soon as the year was up.

This man's personal answer to the problem of falling prices is more efficiency. In the spring of 1950 he rented a second farm. From now on he'll be operating, with the help of two hired men, about 520 acres. With about $18,000 tied up in machinery, he figured it was good business to cut the per-acre cost of owning it approximately in half.

From Iowa's grain farms

High supports are disastrous. Art Sollie, 47-year-old Callender, Iowa, cash-grain farmer:

"To me, it's a choice of having high, rigid supports over a long-time period and loss of freedom, or the use of a low support program and the continued right of free enterprise.

"No, I don't think the government is infringing upon my freedom, *yet*. After all, a farmer has a choice *now* of signing up if he wants to.

"And I want the government behind a long-time farm program with a minimum support floor under storable commodities and livestock, to be used in a crisis. I don't want another depression.

"What worry me are subsidies and marketing quotas," added Mr. Sollie. "Subsidies, with controls, wouldn't allow for the good producer—such as the man who can market pigs in five months instead of seven, the cattleman who puts his beef on the market a month early. Any system which gives a premium to the poor producer is contrary to our American system.

"And *as I understand it*, under the Brannan Plan, if I raised more than the government told me I could, I would be fined if I sold the extra bushels; nor could I feed it. What would I do with the stuff—pile it up until another war?

"Now, I can be a livestock man or a cash-grain man. If the Brannan Plan, or one similar to it, were passed, I'd farm as told. And I personally wouldn't like regimentation from a bureaucracy."

Likes working under government. Lancelot Johnson, 39-year-old Thor, Iowa, cash-grain farmer: "I like the farm program the way it is now, with a 90-percent parity. But there could even be a 100-percent parity on corn, beans, and oats, I believe.

"Marketing quotas? I haven't given much thought to them, but if we need them to keep up our corn-sealing program, I guess they'd be all right," Mr. Johnson says.

"And I don't think we're losing our freedom. We're working under the government, sure. But I like it. There may be politics in the program, but I'm an optimist and think that we're building up something good for the next generation. I'm sort of satisfied with things the way they are, with perhaps a little higher parity."

From Iowa's livestock feeders

Wants minimum supports. Edgar Hovey, 51-year-old Badger, Iowa, livestock feeder:

"The program I want is a minimum one. A basic goal of any farm plan should be to help stave off a depression.

"Such a system would still allow for individual initiative. Farmers would realize, for instance, that if there were a big carryover of corn and they planted a high acreage of this crop, the support price would be lowered—while a small crop could mean higher prices.

"I don't want marketing quotas," Mr. Hovey adds. "And I don't think any other farmer does. We value our freedom too much for that. And as for regimented agriculture, I would point out that under the Brannan Plan a farmer would be liable for fines up to $500 for failure to furnish records requested by the government. In short, a police state.

"Keep the program out of politics, too, even if an administrative board is required. American agriculture shouldn't become dependent on Congress."

Hovey rents 560 acres from his father, but also has land of his own which he rents. Besides his 50-cow Hereford beef herd, he raises about 150 hogs a year. In 1948, he was a candidate for state senator from Webster-Calhoun counties on the Democratic ticket.

A good profit for farmer. C. L. Kramer, 43-year-old Humboldt, Iowa, livestock feeder: "To me, a long-time farm program should be built around the idea of a good profit for the farmer.

[*Turn to page 109*

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Listen to the CHAMPION ROLL CALL . . . Harry Wismer's fast sportscast every Friday night, over the ABC network

Created his own business!

"There's no closed season on opportunity," says CHARLES E. TOBIN of Dallas, Tex. He created a company to clear right-of-ways for farmers, contractors, highway departments. It fills a need in his community, and put him on his own!

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3 people who discovered the one real source of SECURITY!

"There's a world of opportunity to earn your own security in America today!" Every one of these people will tell you.

This is so because everyday folks like these, and there are millions of them, have *within themselves* the stuff that makes opportunity . . . and makes it pay off. They have the traditional American resources *all* of us have in some measure. Imagination. Ambition. Stick-to-it-iveness. Initiative. Drive and self-reliance!

Of course there isn't any easy, sure-fire way to security. But let's make no mistake:

The only real security comes out of what is earned. And only people can earn it! It comes from the work they do—and what they produce.

Such security as is provided by government must be paid for out of the earnings of all the people. Government itself earns no money. Its income comes from taxes, in one form or another. And don't forget that, in the last analysis, *the people* pay these taxes, no matter what source they come from, whether individuals or corporations.

Today, 4 out of 5 families are using life insurance as a means of building their own financial security, with the help of 150,000 trained agents. The Institute of Life Insurance, 488 Madison Ave., New York 22, N. Y.

Made his ideas add up!

"I'll buy the Do-It-Yourself Spirit, any day," says WILLIAM E. FREEMAN of Atlanta, Ga. He taught himself machine layout, kept a sharp eye out for plant improvements, rose to plant engineer at 37 . . . made his *own* security.

How much subsidy?

[*From page 107*]

"I definitely want the government to back such a program, so we can have a guaranteed income.

"During the war I bought and sold hogs and trucked cattle. It worked out very well. There was a fixed price on hogs and a ceiling on cattle, plus a subsidy. It was easy to do business. The farmer knew exactly what his profit would be. I got my trucking fee, plus a packers' commission.

"Acreage controls don't bother me—if they don't get any worse than they were this year—and marketing quotas wouldn't be so bad if I could feed the surplus grain," says Mr. Kramer.

"A government farm program doesn't mean we're losing our freedom. The program I want would mean a guaranteed income. A man's entitled to a fair profit, and if a subsidy means I'll have my money on hand when the next payment comes due on the farm, then I'm for it."

Besides farming, Mr. Kramer also operates a shipping association at Humboldt with a fleet of three trucks, and in addition mixes commercial feed.

Others protected, why not farmers? Carl Tohm, Mahoning County, Ohio—whose operations include 30 acres of potatoes, 20 mixed dairy cows, and a bunch of hens—says, "I have tough sledding in this county because I'm in favor of government controls for agriculture. Sometimes, the fellows at meetings jump on me pretty hard.

"But my reasons are simple and very plain to me," Carl says. "I live in an area that's pretty much built up. Many of my neighbors are city workers, and union members. Wouldn't you say our government is helping protect the income for all those workers? Look at pension plans, sick leave, unemployment payments, and the immigration laws that protect our American workers.

"Our government pays subsidies to many other lines of business. Then why should farmers have to flounder along on so-called 'natural' laws of supply and demand? They're not 'natural' by any means, with all the things that happen because of the pressure groups that run the country.

"We don't have a free system any more," Mr. Tohm continued, "because when my prices go down, the prices for new machinery and gasoline don't go down. Labor won't take a cut."

Cut government's expense at home. "No, I don't believe in asking the government to help me run my business, and I haven't signed up with the farm program for four years." Willis Zimmerman speaking, of Columbiana County, Ohio. He continues, "It makes me so blamed mad that they are always trying to sell me on the idea, and always sending me blanks and letters."

"You're losing some money every year," he was reminded, "by not taking advantage of the payments."

Zimmerman snorted. "How much? It doesn't amount to a darn! If I can't make a living by myself, I'll quit.

"I just decided that if we're ever going to cut down all this government expense and get out of debt, the place to start is at home. I'm doing my share." END

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A simple hand operation adjusts the husking bed to terrain, contour and husking conditions.

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EFFICIENT, MODERN LUBRICATION
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WE TAKE A PATTERN

Count on a sundress

. . . for daytime and fun-time wear this summer. You will be cool as a cucumber, pretty as a picture in this three-piece outfit designed to revel in warm weather

One for the money. For fun in the sun, wear the fancy-full skirt with cool camisole top. It looks crisp-fresh and dainty in pastel pique. In 35-inch fabric, skirt, top together require 3½ yards, top alone, 1 yard (size 14)

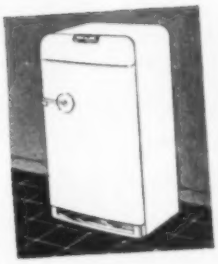
Two for the show. Add the shorty jacket (same pattern) stitched from skirt or contrasting material. For a smart effect, try matching collar and pocket tabs with skirt. The jacket (size 14) uses 1⅝ yards of 35-inch fabric

Three to make ready. For play-time and sports, camisole top mixes perfectly with a pert pair of shorts (borrowed from another easy pattern)

Four to go. As a date-time special in airy sheer, wear skirt and top dancing, add jacket for dinner. An easy pattern makes accessories shown

Above styles are all Simplicity Printed Patterns. Sundress is No. 3193; comes in sizes 12-14-16-18; costs 25 cents. Shorts are No. 2853, and hat, gloves, and purse are No. 2173. They are available at your local pattern counters

Look at all that's new! Look inside and out!
You can't match a FRIGIDAIRE!



Look at the difference— in the new models of America's No. 1 Refrigerator—Frigidaire! See the new styling by Raymond Loewy. Look at all the room for storing frozen foods — all the room for fruit and vegetables in the new, deep Hydrators that slide out and can be stacked! And all new Frigidaire Refrigerators are powered by the new, more powerful Meter-Miser — simplest cold-making mechanism ever built!

Look at the New Deluxe!
Look at its lustrous Ice-Blue trim—its adjustable, sliding aluminum shelves—its new Super-Storage design. Main food compartment is refrigerated by new, improved Cold-Wall Cooling and low-temperature Super-Freezer Chest. 9 and 10.7 cu. ft. sizes—frozen storage capacity, 45 and 49 lbs.

Take your pick of 3 types, 4 series, 10 sizes— 4 to 17 cu. ft. capacity

Choose the new Frigidaire Refrigerator that fits your family—with a separate near-zero Locker-Top or a full-width Super-Freezer Chest or a colder-than-ever Super-Freezer. Some models have Cold-Wall Cooling—of a new, improved type. Some have Lifetime Porcelain exterior finish—others Durable Dulux. Frozen storage capacity ranges from 15 to 70 lbs. Whether you choose a new Imperial, De Luxe, Master or Standard model—you can't match a Frigidaire!

MORE QUALITY FEATURES THAT PROVE YOU CAN'T MATCH A FRIGIDAIRE!

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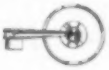
1. New! Ice-Blue, Gold and White Beauty—sets a new standard.
2. New! Target Door Latch—finger-tip action.
3. New Streamlined Design—finished in Lifetime Porcelain or Durable Dulux.



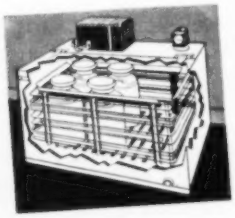
You Get New Convenience

4. Extra Storage Space—in less kitchen space.
5. Extra-Large Frozen Storage Space—holds 15 to 70 lbs.
6. Double-Easy Quickube Ice Trays—trays slide out—cubes released instantly—no melting.
7. New Aluminum Rust-proof Shelves—adjustable, sliding.
8. New, Extra-Deep Hydrators—for fruits and vegetables.
9. New Handy Plastic Basket-Drawer—for small items—in De Luxe and Imperial models.

You Get New Economy—New Dependability

10. New Improved Meter-Miser—makes more cold with no more current.
11. New Improved Insulation—keeps more cold in.
12. Freon-12 Refrigerant—developed by Frigidaire and General Motors.
13. New Improved Cold-Wall Cooling—in all De Luxe and Imperial models.
14. New Sealed-in Mechanism with 5-Year Protection Plan.
15. This emblem on a Frigidaire Refrigerator means safe cold, lasting beauty, utmost convenience, proved economy—plus General Motors dependability and Frigidaire's 30 years' experience in building more than 11½ million refrigerating units.

Frigidaire "Thrifty-30" Electric Range—designed expressly for farm kitchens—is amazingly low-priced, compact, thrifty! Only 30" wide, it has enough room for cooking big harvest meals. The Giant Oven has ample space for 6 big pies or 10 loaves of bread.



Frigidaire Milk Cooler — cools milk to below 50° in one hour! Helps you get top prices for milk—keeps bacteria count low, butterfat content high. Coil-and-Rack cooler, above, has economical Meter-Miser—Drop-In cooler also available. 7 models—3 to 12 cans.

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ALWAYS use a . . . National Presto COOKER-CANNER

Guaranteed by Good Housekeeping

For the very best in home canning, smart, thrifty homemakers use a (National) PRESTO COOKER-CANNER. (*No more of the old-fashioned, unsafe, open-kettle or oven methods.*)

Made by NATIONAL PRESSURE COOKER COMPANY of Eau Claire, Wisconsin. *World's Largest Manufacturer of Pressure Cookers and Canners.* PRESTO COOKER-CANNERS are backed by more than 35 years of pressure cooker manufacturing experience.

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Pain, Tenderness, Burning Are Quickly Relieved

You'll quickly forget you have painful callouses, burning or tenderness on the bottom of your feet, when you apply Dr. Scholl's Zino-pads. Thin, soft, wonderfully soothing, cushioning, protective. Separate *Medications* included for quickly removing callouses. Try them!

Dr. Scholl's Zino-pads

Automatic washers

[*From page 46*]

water normalizers (see page 122, May, 1950, issue). Follow the manufacturer's suggestions for amount of detergent to use, but adjust it to hardness of water and amount of dirt in the clothes. Too much soap or detergent lessens the washing action and occasionally causes some machines to overflow.

3. *Be sure you have* plenty of automatic hot—*really hot*—water for washing. It is impossible to get white washes without it.

4. *Rinse thoroughly.* At least one good, deep rinse is important for rinsing away the last bits of soil and soap.

5. *Never overload your washer.* Overloading drastically hinders the washing action and probably is the chief cause of poor results. It is far better to underload than overload. Your automatic is loaded properly when the clothes tumble nicely, with freedom to change position in the machine. With a little experience you will become familiar with good washing action.

To give you an idea of how many clothes should be in a load, most manufacturers recommend a certain number of pounds. Weighing the loads the first time you use your automatic will give the "feel" for the right amount.

Never wash only sheets or only tablecloths in one load. A mixed load of large (never more than two sheet-sized pieces) and small pieces will assure best washing and rinsing.

Do overalls get really clean? *Very dirty* overalls and other *badly soiled* work clothes get clean only when specially treated. Add a little ammonia to the water and usually a little more than the regular amount of detergent. Wash the overalls in the very hottest water you can get; then repeat the performance with clean water, more detergent, and more ammonia. Two such washings amount to the same thing as elbow grease on a scrub board or a long soaking period.

Can I do a full washing in one day? Probably not, unless your washing is under three or four loads. A far more practical plan is to do a little of your wash each day. If you put in one or two loads a day, and let the washer do the work, you can eliminate that one day a week when you completely exhaust yourself doing the family laundry.

True, it will mean a change of habit for you, but you don't let your dishes pile up for a week—why should you let your laundry? An automatic washer is not used in the same way as a nonautomatic washer, not any more than you drive a 1950 car as you did your Model-T.

An automatic washer allows you to plan your laundry so you hardly know you are doing it. For instance, on the day you change the beds, wash sheets and pillowcases also. Wash Turkish towels and dish towels another day. Still another day, wash all the starched clothes and other ironing. One washing might include overalls and miscellaneous items. In summer, when the farm wearing apparel load is heavy, put in a washerful after baths are taken at night, turn on the machine, and forget them. In the morning the clothes will be ready to go on the line or into the dryer, first thing.

You'll soon learn that your washing fits in quite naturally with your other

morning chores. You can take the children to school, clean, wash dishes, cook, or play and relax while your washing "does itself." Remove the damp clothing from the machine when convenient.

"Oh, I'd never have enough water for an automatic," many a farm woman tells us. And we'll have to admit that it is a problem in some places. Automatic washers use between 22 and 52 gallons of water per load of clothes, depending on the brand of washer. As a comparison, if you wash four loads in a nonautomatic washer, changing the wash and rinse water twice, you would use about 90 gallons of water for the four loads.

Whether or not you have enough hot water will depend largely upon how many loads you want to wash in one day. If you want to wash five or six loads in one day, you will have to wait for more water to heat between loads. A water heater of 50-gallon capacity is about the smallest size you can use, even when you wash only one or two loads a day.

However, there are ways to get around a water shortage. Some automatic washers permit you to re-use water. At least two kinds of washers allow you to use the rinse water for soaking or washing the next load. Others let you use the soaking water for the next wash period.

Two other washers let you save both the washing water and the rinsing water for later use. These washers will expel the suds into another container, then—with a twist of the dial—return the water for washing the next load. The temperature control allows enough fresh hot water to run in to bring the temperature of the water back up. Whether or not it is wise to use this water for later loads depends on how dirty the water is.

Will I have to change the plumbing? No special installations or separate installation of water pipes is necessary for an automatic washer if 40 pounds pressure can be maintained with your present water system. This means merely that the regular plumbing is enough, if you don't use a lot of water to fill the bathtub, for instance, at the same time that you fill the machine.

However, if you cannot maintain 40 pounds pressure on your regular lines, you should have a separate water system for your washer. With less than 40 pounds pressure, some machines fill only half full (this is true on washers with filling timers); others fill for nearly half the washing time, thus cutting down on actual cleaning action. Check your water pressure at the washer intake, as recommended by the manufacturer.

[*Turn to page 114*

SUCCESSFUL FARMING

"Now you're ready to put it in the oven."

Projector-flood lamp lends a hand on outdoor chores...for $1.55 PLUS TAX

BEAT THE OTHER FELLOW TO MARKET

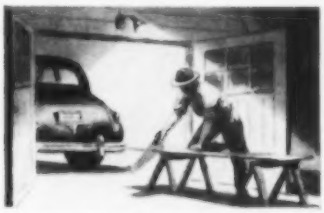
...for quicker sales, higher prices. Load produce at night under bright, broad beam of G-E projector-flood lamps. Mount them high on poles, barn.

MORE PRODUCTION, MORE PROTECTION

Yard lighting with General Electric projector-flood lamps gives extra hours of "daylight" to work in. Also helps keep out intruders.

FOLKS FLOCK TO A BRIGHT STAND

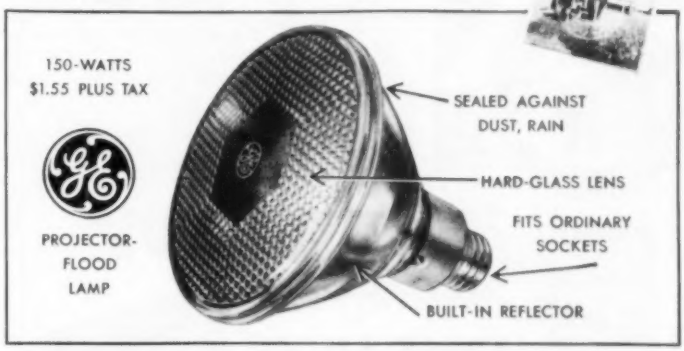
Flood roadside stand with light to attract passersby, make more sales. Place General Electric projector lamps above eye-level, on poles or trees.



PLENTY OF TIME FOR FIXING

It's easy to make outside repairs after dark under G-E projector-flood lamps. Use over garage, outside cellar steps, on back porch.

FREE! FARM LIGHTING BOOKLET! Free booklet "Light for Seeing on the Farm" gives valuable tips on how and where to use lamps and fixtures. Write for your copy to General Electric, Div. 166-SF-6, Nela Park, Cleveland 12, Ohio.



WHATEVER LAMPS YOU NEED...INSIST ON G. E.

G-E HEAT LAMP Standard model, **$1.10.** Hard-glass model . . **$2.95**

G-E TRACTOR LAMP "All-glass" sealed beam type. Does not grow dim.

G-E FLUORESCENT Highest quality. Wide variety, 40w size **$1.00**

G-E LAMP BULBS In handy 4-lamp package. Four 60w bulbs . . . only **48c**

PRICES PLUS TAX

You can put your confidence in—

GENERAL ELECTRIC

"EVEREADY"

The Battery with

"NINE LIVES"

FOR FLASHLIGHTS

FOR FARM RADIOS

Recovers power between uses...

•

Bounces back for extra life!

WRITE US your true experiences with "Eveready" batteries. "Eveready," "Nine Lives" and the Cat Symbol are trade-marks of NATIONAL CARBON DIVISION, Union Carbide and Carbon Corporation, 30 East 42nd Street, New York 17, N.Y.

Automatic washers

[*From page 113*]

As for drainage, you can by-pass your septic tank and drain your wash water directly to the distribution field. The surge of the water as it is pumped from an automatic washer might dilute, in some cases destroy, the bacterial action in the septic tank. If you do drain the water through the septic tank, you should not use a bleach in your laundry. Frequent use of bleaches cuts down bacterial action in the septic tank. Most detergents or soaps have no noticeable effect on the bacterial action in septic tanks.

What should I look for when I shop for an automatic? The washer should be simple in appearance and operation. It should be easy to install and service. You may want one that allows you to control the temperature and the amount of water used. A washing cycle that can be stopped anywhere in the cycle is an added convenience—especially when you want to open the machine to put in a forgotten towel or sock.

For safety's sake, all moving parts of the machine should be enclosed. An added safety feature is built in the lid of some washers—when the lid is lifted, the action of the washer is stopped automatically. You'll want to test the location and size of the opening, to see if it is convenient for you. Consider the fact that most front openings do not allow you to add pieces of laundry after the machine is filled with water.

Some automatic washers must be bolted to the floor, others are movable. The reason for the bolting is to keep the machine from vibrating. Many top-opening models automatically compensate for any unbalanced load in the tub—these models do not have to be bolted to the floor. Other washers have adjustable screws in the legs, so that they can be leveled if floors are uneven.

There are four types of water action in automatic washers now on the market. One general design has an agitator, the kind commonly found in the nonautomatic washer. This agitator goes back and forth in a half-circle motion, thoroughly churning the water and continuously redistributing the clothes.

A second type is the rotating cylinder. With it the clothes are lifted through the water and up, by means of fins on the inside of the cylinder.

The third type of washing action involves a plungerlike action. The plunger, or pulsator, moves up and down in the tub, providing a gentle up and down motion of the clothes and water.

The fourth type of washing action is the bouncing tub (basketlike) variety. This is a bouncing action to agitate the water. The tub has a grooved bottom, said to work in a manner similar to a washboard.

Before buying an automatic washer, check these washing actions and learn which will do the best job for you. Ask your dealers to demonstrate the makes of washers in which you are interested. If necessary, take some of your own dirtiest laundry for a demonstration, or ask your dealer if he will install a washer in your home for a week or so, so you can give it a trial run. Your dealer should not object to your making sure of the machine's performance before you buy. It is to his advantage as well as yours. **END**

How George Waters planted for tomorrow . . . but reaped today

Over on George Waters' place something interesting has happened. It's nothing you can see, especially—unless you lived with the Waters awhile.

"The whole family's brightened up," Mrs. Waters said. "Especially George . . . seems as if a weight has been lifted off his mind."

Although Mrs. Waters didn't know it, she had hit the nail on the head. For years George Waters had been a kind of servant to his farm . . . working hard and long to make it more productive, more valuable, more profitable. And as he succeeded, and as his family grew, his worries seemed to grow, too . . . worries about paying the mortgage . . . about sending the children to the university . . . about passing along to the family as fine a farm as there is in the county.

But now The Prudential has taken those worries off George Waters' mind. The Prudential has promised the Waters family—if George dies—enough money to pay off the mortgage and enough to see the children through school. Or to pay George himself a monthly check when he turns 60 so that he and mother can retire and do the things they've always wanted to do.

Lots of men are finding—as George Waters did—that when you provide for the future you do a lot for your present, too. If you would like to know how you can provide for a more carefree tomorrow—and get a more carefree *today* in the bargain—just ask The Prudential for information about Prudential's Plan for the Farmer.

★

Enjoy the Jack Berch Show—Every morning, Mondays through Fridays, NBC.

SEVENTY-FIVE YEARS OF SERVICE 1875 1950

THE PRUDENTIAL HAS THE STRENGTH OF GIBRALTAR

THE PRUDENTIAL

INSURANCE COMPANY OF AMERICA

A mutual life insurance company

HOME OFFICE: NEWARK, NEW JERSEY

WESTERN HOME OFFICE: LOS ANGELES, CALIF.

THE FUTURE BELONGS TO THOSE WHO PREPARE FOR IT

Yes, you can keep your mouth and breath more wholesome, sweeter, cleaner – by guarding against tooth decay and gum troubles *both*. So don't risk halfway dental care. Use *doubly-effective* Ipana care for healthier teeth, healthier gums – better all-around protection for your whole mouth.

Keep your Whole Mouth Wholesome!

Fight tooth decay and gum troubles with the one leading tooth paste specially designed to do both!*

Yours can be a healthier, more wholesome mouth – if you do what dentists advise, guard against *gum troubles* as well as tooth decay.

With one famous tooth paste – *with Ipana and massage – you can guard your teeth and gums BOTH.

For no other dentifrice has been proved more effective than Ipana in fighting tooth decay. And no other leading tooth paste is specially designed to stimulate gum circulation – promote healthier gums.

Get Ipana's double protection – help keep your *whole* mouth *wholesome!* You'll like Ipana's wholesome, refreshing flavor, too.

"I have confidence in Ipana—it's made by Bristol-Myers."

says Bobbie Snow of Woodside, N. Y.

Bristol-Myers, makers of Ipana Tooth Paste, have worked with leading dental authorities for many years on scientific studies of the teeth and gums. You can use Ipana with complete confidence that it provides effective care for teeth and gums *both*. It's another reliable Bristol-Myers product.

IPANA

For healthier teeth, healthier gums

NEW!

Big economy size Ipana saves you up to 23¢

The new movies

By Betty Camp

Just for fun, see **The Reformer and the Redhead,** which teams Dick Powell, June Allyson, two lions, a chimpanzee, and a giraffe. Picture has no serious thoughts; it's pure entertainment—a little farfetched, perhaps, but full of laughs.

June, bedecked in bobby socks, sweater, and skirt, plays Katy, the vivacious daughter of a zookeeper who befriends animals and politicians alike. In so doing, her temper frequently matches her red hair. Involved in her schemes is Andrew (Powell), an ambitious young lawyer who lets Katy draw him into running for mayor on a "clean-up-the-city" platform.

Climax comes when Caesar, man-eating lion, breaks loose from the zoo, terrifying the countryside. Unaware of this threat, Andrew spots Caesar on the highway and mistakes him for Katy's pet lion, Herman. (Herman enjoys free reign of Katy's household.) Andrew forces the animal into the back of his convertible and breezes along with his strange companion. For a while there are tense moments for the audience, but, true to form, the comedy ends with everyone smiling. (MGM)

Three Came Home is the true story of Agnes Newton Keith's experiences in a Japanese prison camp during World War II. The Keiths, an American family, were imprisoned when the Japanese invaded Borneo, the father in one concentration camp, the wife and little son in another. The three were subject to heartless, inhuman treatment by their guards, lived in quarters unfit for animals, and were starved unmercifully.

Claudette Colbert does a superb job of portraying Mrs. Keith's feelings of heartbreak, fear, and loneliness for her husband (Patric Knowles) during the 3½ years.

Strictly a long-face production, **Three Came Home** is relieved only twice by bits of humor. The film is proof that real-life events can be more horrible than the schemes of the most imaginative writers. (Fox)

Reformer and the Redhead stars J. Allyson and Dick Powell—man and wife in real life

Ruth Roman, Dane Clark, and Raymond Massey turn in exciting performances in **Barricade.** But the savage cruelty throughout the film makes it anything but pleasant for the audience.

Story is laid at the end of the nineteenth century in a western gold-mining camp on the desert. "Boss" Kruger (Massey), a huge, brutish man, rules the miners with the ruthlessness of a dictator. His trapped men hate and fear him.

Into Kruger's domain comes Bob Peters (Clark), an independent fellow, and a fugitive from the law. Involuntary guests, too, are Judith Burns (Roman), who also has escaped from prison, and Aubry Milburn (Robert Douglas), an idealistic lawyer.

Kruger, accustomed to servile obedience from his men, is annoyed by Peters' arrogant defiance of him. He is also suspicious of Milburn, who is trying to discover the secret behind Kruger's absolute control of the mine and the men working for him.

These charming characters become involved in mining explosions, rugged fights to kill, and destruction. Before the film ends, practically the entire cast is wiped out. By that time, you won't much care. (Warner)

Good films

for home or meeting

In the last few years, the farmer has begun to put electricity to work for him in his production as well as in his home. **Electrified Farming.** 25-minute color film produced by General Electric, features 78 ways to use electricity on the farm. It was screened on farms the country over and shows you how, if properly used, electricity can lighten your chores and greatly increase production.

You'll be interested, too, in the parade of new machines which make farming easier, more profitable. Obtain from *General Electric Company, 840 South Canal Street, Chicago, Illinois.*

New U.S.D.A. color film, **Freezing Fruits and Vegetables,** tells step by step how to prepare and package for home freezer or commercial locker. It shows close-ups of recommended freezing methods for corn, broccoli, strawberries, and peaches. You'll learn the answer to such questions as: How long to scald

[*Turn to page 118*

Ruth Roman and Dane Clark take care of the romance in a high-adventure film, *Barricade*

Which Twin has the Toni?

Diane and Barbara Stirling of Los Angeles, California. Says the Toni Twin, "My first Toni was the most beautiful wave I'd ever had . . . my hair never looked so lovely or felt so wonderfully soft." Which is the Toni Twin? See answer below.

Hair styles in this picture by Don Rizzo, famous Hollywood hair stylist

Toni looks as lovely as a $20 permanent —feels as soft as naturally curly hair*

When you choose Toni—for only one dollar you are getting the very finest permanent there is. A wave that's caressably soft like naturally curly hair . . . and guaranteed to look just as lovely—last just as long as a permanent costing $20. (*Including shampoo and set).

What is Toni's secret? It's the lotion. Toni waving lotion is an exclusive creme formula—especially created to give you a wave that's free of harsh frizziness—a wave that *feels* and *behaves* like naturally curly hair. But remember, only Toni has this superb waving lotion.

Wonderful results—again and again! What better proof of Toni quality! Only Toni has given over 67 million lovely, long-lasting permanents. Some women have used Toni ten times or more and say their waves are always soft, natural-looking, easy to manage. Letters of praise come from women with every type of hair—even gray, bleached and baby-fine hair. So whether you are buying your first Toni or your tenth, you can be sure of getting a wave that has that $20 look. Barbara, the twin on the right, has the Toni.

P. S. For a lovelier you—get Toni Creme Shampoo and Toni Creme Rinse, too.

Glamorous Cathleen Treacy, one of Chicago's loveliest models, says: "Every fashion model agrees that the best permanent is a wave that's soft and natural-looking. That is why so many of us use Toni Home Permanent."

NEW!

TONI MIDGET *SPIN* CURLERS

For perfect neckline curls far easier—far faster!

Wonderful for new, short hair styles. Winds short, wispy ends closer to the head for longer-lasting curls.

SPECIAL! Toni Refill Kit with 6 Midget SPIN Curlers and Toni Creme Shampoo. $1.50 value only **$1.33**

That *Other You* Could Lose His Love!

Your husband loves the *real* you—happy, poised, *confident* of your intimate feminine hygiene. Don't let doubts, misgivings, inhibitions create *another* you!

YOU'RE *sure* of feminine daintiness when you douche regularly with "Lysol."

"Lysol" cleanses the vaginal canal even in the presence of mucous matter. No makeshifts like soap, salt or soda can possibly act the same way!

"Lysol" is the famous disinfectant with amazing, proved power to kill germ-life quickly on contact!

Yet, gentle, non-caustic "Lysol" will not harm delicate tissue. Correct douching solution in the simple directions on every bottle. Many doctors advise patients to douche regularly with "Lysol," just to insure daintiness alone, and to use it as often as needed. No greasy aftereffect.

Don't take chances! Don't let *neglect* create a "dual personality"...another you, full of doubts, misgivings and inhibitions! Don't let that *other* you destroy your love!

Get "Lysol" brand disinfectant today, and use it regularly.

Preferred **3 to 1** *over any other liquid preparation for Feminine Hygiene!*

"Lysol" Brand Disinfectant

REG. U.S. PAT. OFF.

Product of Lehn & Fink

A Concentrated Germ-Killer

The new movies

[*From page 117*]

vegetables; how to keep fruit from darkening; how to sweeten fruit; and how to seal different types of containers. Obtain from the *State Agricultural Extension Service* of your *State College Film Library*.

The Next Step is the story of a young family who installed a running water system on their farm. Searching out professional help, they learn their well is unsanitarily located too near the barn. So, first off, they plan a new, deep well next to the house.

You are taken with them through the process of planning the water lines to the barn, milkhouse, and chicken house, installing the disposal system, remodeling the kitchen, and building a bathroom. The film is informative and fun to watch. More important, it shows how a modern water system definitely increases the profits in dairy and livestock operations. Free from *Crane and Company, 836 S. Michigan Ave., Chicago 5, Illinois.*

Hydraulic power gives you finger-tip control over farm machinery, saves your temper and time. This is the message in the color film, **Hydraulic Controls,** which shows clearly how such systems operate.

The film also demonstrates the new portable hydraulic cylinders. One cylinder fits all types of machines from corn planters and cultivators to trailer mowers, and can be moved easily from tool to tool. Free from *J. I. Case Company, Racine, Wisconsin.* END

Business is good!

And a future with the Successful Farming Field Sales Organization offers you an opportunity to achieve above-average earnings.

If you are free to travel and own a car, we have a better-than-average job that will interest you.

Farm background is helpful but it is not necessary.

SUCCESSFUL FARMING ★ ★ FIELD SERVICE MAN

WHAT IT IS

Successful Farming's field sales organization is seeking out and hiring men for saleswork among farmers in the 15 Heart states. . . . Training is complete and at our expense. Leads are furnished for assured business. If you know of a person who might be interested, or if you are interested yourself, please write or contact our closest Division Office listed below. We'll be pleased to arrange a personal interview.

Sid Beebe, Box 555, Sioux Falls, South Dakota; Lloyd Akins, Box 537, Elgin, Illinois; Charles Eackler, 211 North D St., Indianola, Iowa; Art Schultz, Box 55, Grand Rapids, Michigan; Tom Reid, 818 Wyandotte, Kansas City, Missouri; C. R. Canfield, Box 511, Ravenna, Ohio.

Don't worry, Dad, there's plenty of clean hot water

. . . "Your Unseen Friend" takes care of that

Like most good providers, Dave Horton is usually an "early bird."

This morning, however, he overslept. So first the twins . . . and now big sister Sue . . . have beaten him to the shower.

But Dad's not worried. He knows there'll be plenty of clean hot water for him *and* for household chores. His "Unseen Friend" takes care of that.

His "Unseen Friend," and yours, is the Nickel alloy tank in his automatic water heater. Heart of the heater, this tank is built of solid, corrosion-resisting Monel . . . for longer service. And built, too, for hotter hot water.

Hotter because, with a solid Monel tank, you can safely get water hot enough so clotheswashers and dishwashers do their job right. Then, for ordinary purposes, you mix in the cold . . . thus making your hot water go lots further.

With a Monel tank, you also get cleaner hot water — water free from tank rust.

Hot water clean enough to drink . . . hot enough for any and all household chores! Is this what you want? Then just ask your dealer if there's a Monel tank in the next water heater you buy.

Nickel or Nickel alloys are in almost every work-saving and pleasure-giving appliance in your home.

You don't see the Nickel because it's usually intermixed with other metals . . . to make your range or T-V set work better. That's why Nickel is called "Your Unseen Friend."

***Free new booklet for home owners** — tells what to look for when you buy a water heater. Tells why a Monel tank is best for your water heater. Write for your copy today — ask for "What makes Monel different?" Address: Dept. 257z, New York 5, N.Y.*

Special note: Monel tanks are now available in large sizes — 125 to 300 gal. capacities; suitable for apartments and industrial use.

THE INTERNATIONAL NICKEL COMPANY, INC.

EMBLEM OF SERVICE

Nickel

©1950, T. I. N. Co.

. . . Your Unseen Friend

ONE STANDS OUT!

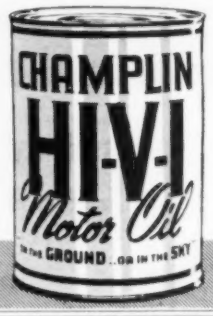
AMONG IOWA FARM GIRLS IT'S BEVERLY JAYNE HANKEN

In 4 years of dairy club projects, 17-year-old Beverly Hanken, Monticello, Iowa, has raised 4 purebred Holstein cows who have rewarded her with 7 produce of dam. Her showing activities in 1949 brought Beverly 2 first blues and Grand Champion on 2 animals at the Great Jones County Fair. She showed the second senior yearling at the State Farm Club Dairy Show and her record book was judged Grand Champion in Jones County. The calves shown are l-r, "Joanie" and "Corliss" whose real names are Joanna Joy of the Dictators and Sunnycrest Iva Fobes Dictator.

AMONG MOTOR OILS IT'S HI-V-I!

HI-V-I's dependability puts it at the top of the lubrication list with farmers. Dual-processed HI-V-I has an added detergent that cleanses engines of carbon, tar and gum formations as it lubricates. And clean engines are better performers! Go through harvest on less fuel . . . with fewer repair bills . . . with HI-V-I motor oil! HI-V-I will stand up under the most grueling grind . . . no breaking down or "thinning out" to delay work when every minute counts! Refined from 100% pure Mid-Continent crude, HI-V-I is a premium oil with uniform quality in every drop! Try this dependable oil that farmers prefer, Champlin's HI-V-I!

a product of
CHAMPLIN REFINING COMPANY
Enid, Oklahoma
Producers, Refiners, Distributors
of Quality Petroleum Products
Since 1916



Service Building Book—50c

Shows you how to build better farm buildings for more profitable farming. There are illustrations and floor plans for all kinds of farm buildings—from general purpose barns to hog houses and machine sheds. Includes a complete remodeling section.

Order your copy today from Successful Farming, 2806 Meredith Building, Des Moines 3, Iowa.

COMBINE with the *Innes* WINDROW PICK-UP & FEEDER!

Success in windrow harvesting depends on careful handling!

INNES PICK-UP—Patented piston action picks entire windrow up clean, without wrapping, clogging or shelling. Light, and easy to attach. Stiff and spring finger models to fit most combines.

INNES FEEDER for full length threshing cylinder. Separates and smooths out toughest windrows. You travel 1-3 faster, save up to 50% more grain.

All Innes products are precision-built of finest materials.

See your dealer, or write Innes Co., Bettendorf, Iowa.

INNES INNES INNES INNES INNES INNES INNES INNES INNES INNES

Wake up your home with color!

But, make sure you'll like to live with your new color scheme. Before you buy new carpeting, new draperies, or wallpaper, PLAN! (See how, page 40.) The stores listed below cooperate with the Successful Farming Home Planning Service. Visit the one nearest you for help with your home-planning problems.

Illinois
- Bloomington — Livingston's
- Champaign — Robeson's, Inc.
- Decatur — Block & Kuhl Co.
- Galesburg — Block & Kuhl Co.
- Peoria — Block & Kuhl Co.
- Quincy — Block & Kuhl Co.

Indiana
- Indianapolis — L. S. Ayres & Co.
- South Bend — Robertson Bros.

Iowa
- Cedar Rapids — Smulekoff's
- Des Moines — Younkers
- Fairfield — Bradshaws
- Marshalltown — The McGregor Co.
- Oskaloosa — The McGregor Co.
- Sioux City — T. S. Martin Co.

Kansas
- Coffeyville — Long-Bell Lbr. Co.
- Liberal — Long-Bell Lbr. Co.
- Pittsburg — Long-Bell Lbr. Co.
- Salina — Long-Bell Lbr. Co.
- Wichita — Hinkel's

Michigan
- Lansing — J. W. Knapp Co.

Minnesota
- Albert Lea — Skinner Chamberlain
- Mankato — Landkamer Bros. Co.
- Minneapolis — L. S. Donaldson Co.
- St. Cloud — Herberger's

Missouri
- St. Louis — Stix, Baer & Fuller
- Springfield — Heer's, Inc.

Nebraska
- Grand Island — Wolbach's
- Lincoln — Gold & Company
- Norfolk — Ballantyne's
- Omaha — Orchard & Wilhelm

New York
- Albany — W. M. Whitney & Co.
- Geneva — Lauer Furniture Co.
- Rochester — McCurdy's
- Watertown — Household Merit

Ohio
- Ashtabula — Carlisle-Allen Co.
- Columbus — F. & R. Lazarus
- Dayton — The Rike-Kumler Co.
- Mansfield — The M. O'Neil Co.
- Springfield — Wren's

Oklahoma
- Clinton — Long-Bell Lbr. Co.
- Enid — Long-Bell Lbr. Co.
- Oklahoma City — Long-Bell Lbr. Co.
- Tulsa — Long-Bell Lbr. Co.

Pennsylvania
- Pittsburgh — Joseph Horne Co.
- York — Wiest's

South Dakota
- Huron — Fullerton's
- Sioux Falls — Johnston's, Inc.

Wisconsin
- Manitowoc — Boston Store
- Milwaukee — Gimbel Bros.
- Oshkosh — Boston Store

"For me and my family—
there's no Body like Fisher Body"

Mrs. Mable Duckert of Romeo, Michigan, who has six children, ten grandchildren, and 168 acres of farm, considers Fisher Body a mighty important feature of the five Pontiacs she has owned. Her son Melvin, also a Pontiac owner, works the farm with her.

FISHER builds automobile bodies in a way that farm folks can appreciate—sturdy and rugged, to take rough going and rough weather and still keep their handsome good looks.

Consider the extra strength in Fisher's Unisteel construction. Ribbed braces and struts, box-section girders, heavy panel sections are all welded into a massive one-piece structure. You can tell this as you listen to the solid slam of a door.

Then note the evidence of the fine materials in Fisher Body. Feel the upholstery. Note that safety *plate* glass is used in every window, as well as the windshield. Consider the skill and craftsmanship behind Fisher's 41 years of experience—and you'll see why people all over the country with General Motors cars agree on one thing:

There's no body like Fisher Body!

Special locking device in Fisher Body rear doors can easily be placed in operation to protect small children.

A sturdy welded steel body is important to a farmer's car. So is a good, big, easily loaded trunk.

These extra-value features are all yours on General Motors cars—*the only cars with Body by Fisher.*

CHEVROLET · PONTIAC
OLDSMOBILE · BUICK · CADILLAC

Body by Fisher

— BETTER THAN EVER!

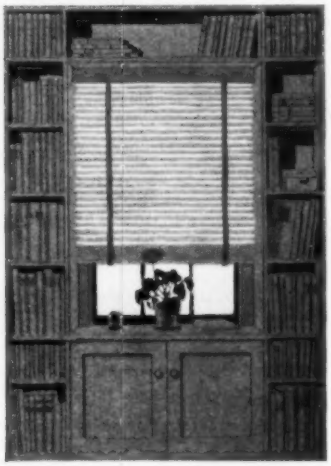
1 Your collection of lovely old plates is a natural for framing an odd window in an entry hall, stairway, or dining room. Plan the placement of each plate carefully so sizes balance each other around window

2 House plants decorate a window beautifully if shelves are built for them between casings. Add a scalloped cornice top and bottom; paint to match woodwork

3 If your walls are a plain color, an unusual window treatment can be had with wide wallpaper borders. Paste border right on the woodwork around the top and sides down to sill

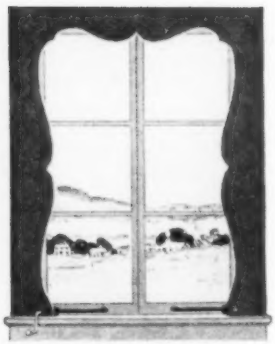
7 smart ways to decorate windows

By Mary Rouse



4 Books have long been recognized as a decorative device. Use their rich colors to frame a window by building shelves around top and sides with a handy storage cabinet under the sill

5 Flower, fruit, or bird prints, framed alike, can make an attractive substitute for draperies. Inexpensive frames from a variety store and colored construction paper for the mats will help keep the cost low



6 A gracefully shaped cornice, built of hardboard, is a pretty and easy-to-make window trim. Paint it to contrast with walls, or cover with paper or fabric

7 Colorful glass or china is a smart window decoration. Place glass shelves across casing so display reflects the light. Hang plants on either side to add soft finishing touch. **END**

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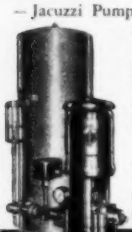

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For low-cost gains for pigs on legume pasture, you can hardly beat a supplement of 100 pounds of solvent soybean meal and 200 pounds of ground oats plus shelled corn and minerals. All this is self-fed free-choice.

University of Illinois tests just reported show that this supplement cost $8.10 per 100 pounds of gain, using feed prices in the summer of 1949 during the experiments. That's not counting 3½ pounds of minerals or the cost of grinding the oats.

Two other supplements gave just as fast and efficient gains, but they cost $8.90 per 100 pounds of gain (also not counting minerals), or 80 cents more.

These two supplements were: (1) 100 pounds of solvent soybean meal and 100 pounds of meat and bone scraps and (2) 100 pounds each of solvent soybean meal, meat and bone scraps, and dried corn distillers solubles.

The Illinois work indicates you can expect equally fast and efficient gains with any of these three supplements, provided your pigs are on alfalfa or alfalfa-brome pasture. Results with this all-plant protein supplement seem to show that you don't need animal protein in a pig supplement when they're on alfalfa pasture.

The pigs on solvent meal-ground oats reached a 203-pound market weight with an average daily gain of 1.5 pounds.

The pigs on solvent meal, meat scraps, and dried corn distillers solubles ate 343 total pounds of feed during 118 days on test and reached a 198-pound market weight with an average gain of 1.4 pounds. This lot was on alfalfa-brome.

From these results, the Illinois men say you can feed dried corn distillers solubles as one-third of the supplement without slowing down the rate or efficiency of gains.—*L. J. N., Illinois.*

How good is this new soybean meal?

If you're wondering about the value of this new solvent soybean oil meal in pig rations, here are the results of two feeding tests on that question, just announced by the University of Illinois.

The soybean processing industry, you know, is rapidly converting from the expeller process to the new solvent extraction method.

When solvent and expeller meals were self-fed free-choice with shelled corn and minerals to 45-pound growing pigs on alfalfa pasture, the solvent-meal pigs made 11 percent faster average daily gains for the first 78 days of the test—1.19 pounds compared to 1.07 pounds for the expeller lot.

The solvent pigs also reached the 200-pound market weight in 114 days compared to 121 days for the expeller lot. Average daily gains for the entire test were 1.37 pounds for the solvent lot and 1.27 pounds for the expeller lot.

But the solvent lot also ate 148 pounds of their meal compared to 133 pounds of expeller meal for that lot. And total feed per 100 pounds of gain was about the same for both lots for the entire experiment—357 pounds for the solvent lot and 362 pounds for the expeller lot.

In another experiment, Illinois swine men tested the two meals as the only source of protein in dry lot rations for self-fed weanling pigs. This is a critical period, nutritionally, in a pig's life, so any differences in feed value should show up plainly.

They found the solvent meal gave 12 percent faster average daily gains without affecting efficiency of gains. The solvent lot reached their 90-pound weight in dry lot in 42 days compared to 46 days for the expeller lot.—*L. J. N., Illinois.*

How good is creep-feeding?

Creep-feeding certainly looks like a paying proposition for nursing pigs, according to University of Illinois tests just reported.

With two lots of 15 sows each and their pigs running on Balbo rye, 10 pigs died out of 114 in the no-creep lot compared to only 5 deaths among 116 pigs in the creep lot.

Those five more pigs saved mean at least $50 extra income. That's because each pig saved represents $10 to $11 worth of feed at present prices, according to J. L. Krider, Illinois swine specialist.

And for 40 pounds of creep feed, the 111 creep-fed pigs made 122 pounds more total gain. There was a 12-percent (54 pounds) saving in total feed eaten by sows and litters in the creep-fed lot, too—377 pounds compared to 431 pounds per 100 pounds of gain.

Sows were self-fed shelled corn and a supplement of 200 pounds of meat and bone scraps, 100 pounds of expeller soybean meal, 5 pounds of iodized salt.

The creep-fed pigs had free-choice access to shelled corn, broken oats kernels, and a pig supplement consisting of 100 pounds of 55-percent meat scraps, 100 pounds of solvent soybean meal, and 2 pounds of iodized salt.

Here are two of several recommendations made by Illinois swine men, based on six creep-feeding tests with 134 sows and their litters.

1. The creep has proved most valuable when sows were hand-fed poor rations—ear corn twice daily with minerals self-fed. In this case, creep-fed pigs gained 12 percent faster and the sows and litters required 20 percent less feed per 100 pounds of gain. And fewer pigs died.

2. When sows are self-fed a good ration on pasture, the advantage of the creep seems to hinge on the creep ration. When pigs received shelled yellow corn, broken oats kernels, and pig supplement, they gained a little faster. But more important was the 12-percent saving in feed eaten by the sows and litters. Competition and danger to the little pigs also was cut down and only half as many pigs died.—*L. J. N., Illinois.*

Does it pay to dock, castrate lambs?

Do docking and castration pay in the case of early-spring lambs going to market at four to five months?

Results obtained at four agricultural experiment stations showed ram lambs were slightly heavier than wether lambs, but were not quite so fat. Also, there were no great differences in the palatability of the meat from the wether and ram lambs. The carcass grade of the wether lambs averaged about ⅓ of a grade higher, and the dressing percentage also favored the wethers by 1 to 2 percent. However, the rams outweighed the wethers by about 3 pounds per head.

One experiment station, using two crops of early-spring lambs, found that undocked ewe lambs averaged 95 cents more per head than docked ewe lambs, and the undocked and uncastrated ram lambs brought $1.19 more per head than the docked wethers.

Altogether, it seems apparent that the producers who use the necessary know-how turn out the best lambs. Docking and castration alone do not provide a reliable index of the value of a market lamb.—*C. D. L., Washington, D. C.*

Cobs no value in lamb feeding

LAMBS do better on shelled corn than on ground ear corn, according to recent feeding tests at the Ohio Agricultural Experiment Station. Including cobs in the ration seemed to step up the lambs' appetite for hay, increase the amount of hay eaten per 100 pounds of gain, cut rate of gain, lower the dressing percentage, and lower the selling price from 25 cents to $1 per hundredweight. **END**

Wonder drugs stop enteritis

The cat's out of the bag on something that previously has been suspected but unproved by a number of animal nutritionists over the country. It's the idea that antibiotics can control enteritis (necro) in pigs.

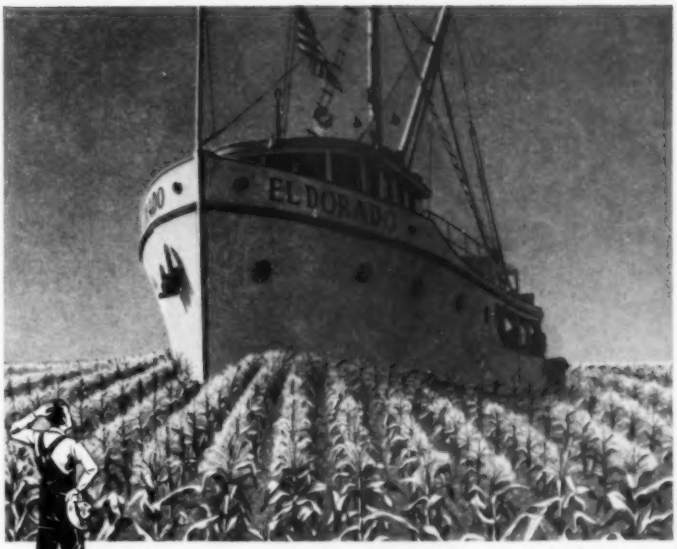
A report comes from the Hormel Institute, Austin, Minnesota, that after trying B-vitamins and every other known recommendation for pig scours, they have found that aureomycin, one of the antibiotics, has made pigs snap out of their unthrifty condition.

Tests conducted by Dr. Lawrence Carpenter showed that pigs treated by adding aureomycin to the ration picked up at once, stopped scouring, and soon were making nice gains. Weight records were kept on pigs weaned at 8 to 10 weeks of age, and it was noted that during the four weeks after weaning, some of the treated pigs were gaining as much as a pound a day. That's good when you consider that a half-pound daily gain is generally thought to be satisfactory for pigs of that size.

Similar observations at the Iowa Agricultural Experiment Station were revealed last fall at the Swine Field Day. Cooperative experiments now are in progress at the Iowa station on this particular type of work.

Dr. T. J. Cunha of the Florida Agricultural Experiment Station, after using aureomycin in pig rations, says that the antibiotic "prevented a periodic scours which occurred with the pigs on the control ration. The pigs fed aureomycin also had more bloom and smoother hair coats than the control animals."

Dr. R. W. Luecke of the Michigan Agricultural Experiment Station found recently that streptomycin, another antibiotic, added to pig rations had an effect on enteric disturbances. So, there's a clue that several of the antibiotics may be useful in fighting a trouble which has made runts of thousands of pigs and has defied the scientist and the veterinarian to do anything about it. **END**



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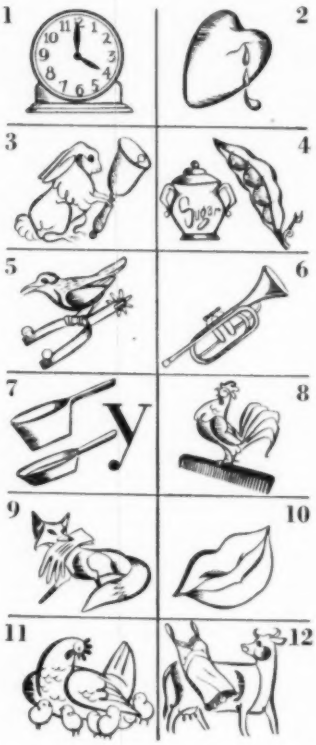
Name the flowers. (The answer to the first picture is "four-o'clock.")



Answers: (1) Four-o'clock, (2) bleeding heart, (3) harebell, (4) sweetpeas, (5) larkspur, (6) trumpet flower, (7) pansy, (8) cockscomb, (9) foxglove, (10) tulips (11) hen and chickens, (12) cowslip.

Danny Meadow Mouse was tired of his snug, grass-lined burrow under the woodpile at the back of Farmer Brown's orchard. So he finished his supper early and coaxed his mother to let him run outside to play for a while before bedtime.

"You may go," she said, "if you promise to go no farther than the end of the orchard. It's getting late, you know, and soon Hootie the Screech Owl will be flying about to look for his evening meal. He's fond of fat young meadow mice, so keep a sharp eye and don't stay late."

Danny promised he'd hurry back, and away he scampered. Umm . . . the air was so cool after the warm June day and the grass felt so nice and soft beneath his feet. He decided he would just slip over across the field to the pasture and visit his cousin, Malcolm Field Mouse.

"It's all nonsense," he said to himself as he left the orchard and started across

HOUSE

meet every month

the open pasture. "Mother's afraid of her own shadow. Why, I bet old Mr. Hootie's a thousand million miles away from here, I bet . . . "

And then it happened. Something made Danny stop still in his tracks. He didn't hear a sound, but suddenly he saw the shadow of two big wings and he looked up into two fierce round eyes and a sharp, yellow beak. For a second, Danny thought he would faint. Then, just in the nick of time, right at his feet he saw a friendly burrow running under a large stone. Quick as a flash, he dived toward it, but not quite fast enough, for "Snap! Snap!" went the yellow beak. "Oh me! Oh my! Boohoohoo!" went Danny. Hootie had nipped off the end of his tail.

"*Who* is this in my burrow?" asked a very cross voice behind him. It was Mr. Chipmunk.

"I'm Danny Meadow Mouse, sir," gulped Danny, all out of breath. And he hurried to tell Mr. Chipmunk his story.

"Hem!" muttered Mr. Chipmunk. "A narrow escape, young man. And now, all your life you will have to go about with a tipless tail. But you'll be wanting to get home, I suppose. I'll take you out at my private back door which is right at the edge of the orchard."

A few minutes later, little Danny, with his tail all bandaged, was safely tucked in his own comfortable bed. And never, never again did he disobey his mother's orders, for he'd discovered that somehow she always knew best.

Fun for little cooks

A frosty-cool **Lime-Mint Shake** is wonderful for hot June days. To make it:

Add . . . **2 sprigs mint** to
1 quart cold milk
Let stand in refrigerator one hour.
Remove mint.
Add . . . **½ cup sugar**
1 package lime-flavored powdered drink mix

Shake well and pour into four tall, well-chilled glasses. **Top** each with a mint leaf and a spoonful of sweetened whipped cream. It's dee-licious!

Goofy Golf is a rainy day special that's fun to play. First, you will need a putter—either the rib of an old umbrella or a 2-foot length of heavy wire bent a bit. Wind these tightly with strips of cloth and stretch rubber bands over this to make a lumpy knob. A large cork will be your ball. Make a 4-inch string circle at one end of the room for the cup. Now, see who can sink the ball with the fewest strokes. This is a good game. **END**

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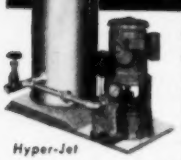
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What makes pigs scour?

Almost every hog raiser sometime has seen scours at work in his herd. More ways are being found to fight this trouble

By W. N. McMillen
Michigan State College

A group of veterinarians were at Michigan State College a few weeks ago attending their annual conference. I asked several of them to tell me all the things they could think of which cause diarrhea or scours in hogs.

Here is part of the list: Hog cholera, erysipelas, necro, overfeeding sows when pigs are young, sudden feed changes, cold and damp weather, shortage of vitamins, and poor rations in general. These veterinarians agreed that scours is not a disease in itself but, instead, is a result of most infectious diseases and many feed deficiencies.

Carl Zillman, a farmer of Cass County, Michigan, mentioned a cause that farmers often give when he asked me, "How do you college fellows feed 20 percent protein to weanling pigs without their getting scours? I cannot do it. When I reduce the protein the scours disappear."

Can too much protein cause diarrhea in pigs? Most college swine specialists are inclined to say no. Then why do Carl Zillman and many other farmers keep blaming high protein for scours?

I'm sure we don't have all the answers, but maybe a systematic discussion of what we have observed will help. Let's classify scours into three general groups. First, there are the serious kinds due to contagious diseases. Secondly, there are the several kinds of diarrhea due to improper feeding, vitamin deficiencies, sudden feed changes, and so forth. Some of this type of scours can be harmful, but more often clear up in a day or two without much harm. In the third class we can include the mysterious kinds like baby pig disease, an ailment which baffles even the best authorities on swine diseases.

Let's leave the serious kinds of scours that go along with the contagious diseases by saying that vaccination, isolation of new replacement stock and feeder pigs, and sanitary practices will help prevent them. When a hog has fever, refuses to eat, and scours occur, it's time to expect some sort of infection. Good hog men seldom run into this serious infectious type of diarrhea. When infection does occur, it's a job for the veterinarian.

If pigs get by the first few days after birth without serious diarrhea, they usually do not have trouble until weaning time. In visiting with experienced veterinarians from Iowa and Indiana, they agreed with me that scours soon after weaning is a big problem. They mentioned that farmers start calling at the first sign of diarrhea. Luckily, much of this trouble is caused by temporary conditions, and the looseness is not very harmful.

It is not uncommon to hear of outbreaks of bloody scours or swine dysentery. Bloody scours is a sign of serious trouble. Necro is responsible for a lot of scours in weanling and growing pigs. Scours from necro are common after vaccination when pigs are not thrifty. The pigs stop growing, scour, and lose their appetites. It is now known that a lot of the scours which go along with thick intestines are due to a very low level of B-vitamins, rations unbalanced in protein, too much fiber, and other poor feeding practices.

George Ellison of Ingham County and A. L. Barnhart and son of Hillsdale County, Michigan, have been leading contenders for the championship in our Michigan feeding contests for years. In

visiting with them I got some practical tips on how to prevent scours in the critical weanling period. Here are the things they consider to be important along with some things we have observed at the college.

Before taking pigs off the mother's milk, it is important that they grow used to the system of feeding and feed mixtures they will have after weaning. If sows are fed a liberal supply of a ration balanced in protein, mineral, and vitamins, the milk is rich in these factors. If the litter is self-fed with the mother, or creep feeding is practiced, the pigs will be used to the feed and feeding method when weaned. It is important to make feed changes before, rather than after, weaning.

The Barnharts and many other hog men like to have some kind of milk by-products for their pigs for a few weeks after weaning. Skim milk, dried skim milk, dried buttermilk, and a condensed form of milk by-products are all popular. Because many pork producers cannot have milk, the adding of synthetic B-vitamins and trace minerals is good insurance. In any case, some good protein supplement should be used.

Not only do the Barnharts and Ellison use pasture, but every winner in our Michigan feeding projects for several years has been a strong backer for it. More and more deficiencies are being discovered in the feeds most commonly fed to hogs. In every case, so far, growing pasture has been found to supply the critical nutrients. If pigs are healthy when put on pasture and they eat the forage, a great deal of necro and scours is prevented.

During early or midsummer one of the most common and discouraging types of scours occurs on many farms. Everyone is busy in harvest and it's easy to let the pigs run out of pasture or forget to feed protein supplement for a few days. Or, maybe the pasture is mostly stems. Then the pigs scour, ribs begin to stick out, appetite decreases, and necro is present. Maybe you'll find a dead one or two, and more of them getting sick each day.

The healthy pigs often can be protected by moving them to a pasture of young, green forage and by keeping a good fortified supplement before them. It is desirable to separate the sick ones and have a veterinarian give them a shot of B-vitamins. This will help to determine whether infection is present. If there is no infection, the pigs will usually show remarkable improvement.

As wormy pigs become deficient—or deficient pigs are apt to become wormy—it might be a good idea to use the sodium fluoride treatment when the pigs get better. If there is any sign of rubbing or skin trouble, use benzene hexachloride (BHC), chlordane, or Lindane.

More and more it becomes evident that many pig troubles are due to the use of grain, especially corn, without properly supplementing it. Pigs may scour for a day or two on a lot of the feeds or feed mixtures we now are using.

It is a mistake to change the feed until you are fairly sure the feed is at fault. Many pigs are ruined when the owner gets excited and starts changing supplements and feed mixtures. Frequent changes often make the trouble worse.

Some protein supplements are laxative. This is especially true of those heavy with

[*Turn to page 130*

STOP

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with

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You profit two ways on grain storage with BS&B "Perfection" bins. First, you get 100% grain protection keeping grain in top shape for full market value. Secondly, government fees soon pay for bin. You actually get your investment back and more.

Guaranteed "Perfection" bins are built to last for years. They are available in 1000, 1300, 2200 and 2750 bushel sizes. Place your order now for "on-time" delivery.

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with the New 1950 self propelled MOZ-ALL

CUTS and pulverizes weeds . . .

Remove blade guard for handiest weed cutter you ever had! Cuts and pulverizes weeds higher than your head. Cuts through long, matted grass. Moz-All is a real back saver in weed patches in fence rows, yards, orchards. Hi-Carbon steel blade cuts full 20" swath. Powered by 4 cycle, 1½ H.P. engine.

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Have fun keeping your lawn beautiful and trim as a pin. Self-propelled, Moz-All climbs hills and zips through rough terrain—you just follow. Sucks grass up for a smooth, even cut. Chops clippings into beneficial mulch for lawn. Moz-All cuts very close to fences, trees, and walls. Eliminates laborious after-trimming.

PULLS ITSELF . . . efficient V-belt drive. Quickly put in "gear", or taken out for "free wheeling".

FINGERTIP CONTROL . . . both throttle and clutch are on handle.

FIRST IN SAFETY . . . all moving parts are properly shielded. Meets all safety requirements.

See the ALL-purpose, labor saving MOZ-ALL at your Hardware or Farm Equipment dealers today! Or, write direct for FREE descriptive folder.

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There's a million-dollar secret behind the spectacular performance of the new AC Spark Plugs: It's *CORALOX*, AC's patented Insulator.

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PATENTED CORALOX INSULATOR

AC SPARK PLUG DIVISION • GENERAL MOTORS CORPORATION

What makes pigs scour?

[*From page 129*]

soybean oil meal. But thousands of pigs have made excellent growth on supplements that cause loose feces.

It is not likely that high-protein mixtures cause scours in pigs. More often it is due to the fact that the supplements used with the grain do not make a balanced ration. It is a good idea to find a system of fortifying feed that works for you, and then stick to it. Liberal feeding or self-feeding, fullest use of pasture, adequate supplement, and good management will reduce scours and increase profit.

As your baby pig problems are pretty well over for this spring, I have left baby pig scours to the concluding part of the discussion. Reports indicate that many of the 40 to 50 million young pigs that die each year have developed scours.

> **Happiness will sneak in through a door you didn't know you had left open.**
> —*John Barrymore*

One type is called little pig disease or three-day-pig disease. The pigs show symptoms of weakness, are unsteady on their legs, develop rough hair, and become droopy and listless. Post mortem examination shows a varying degree of thick, inflamed intestines called enteritis. Often there is kidney damage.

There is usually curdled milk in the stomach which some authorities believe means that the pig has been getting enough milk. Others are not so sure, claiming that when the pigs become partly starved the digestive system stops working, and the curd may remain in the stomach for several hours. So the pigs may be actually starving.

When medical people can't find bacteria, they often blame the trouble on an agent that cannot be detected, called a virus. So some of this mysterious baby pig trouble has been called virus baby pig disease.

One would be foolish to say that there is no such thing as scours caused by infectious baby pig disease. However, many baffling diseases have turned out to be caused by vitamin deficiencies and lack of the other necessary feed factors.

We are finding that recommended amounts of some vitamins for weanling pigs are too low. Many sows are not being properly fed to get enough quantity and quality of milk. It is very possible that closer attention to supplying proper protein, mineral, and vitamin supplements in the sow's diet will prevent a part of these mysterious types of losses.

More common than the infectious type of baby pig scours is the kind caused by overfeeding the sow. Many pigs develop scours which really set them back by getting too much milk the first few days after farrowing. Drastic changes in the sow's feed also cause diarrhea in the pigs.

Chronic or long-drawn-out scours seem to be more prevalent in cold, damp weather. This suggests the importance of added care in supplying dry bedding and keeping barns well ventilated during damp, cold spells. END

Dairy

Pays well to soak can lids

ARE YOU one of those dairymen who still strain milk in the barn? Do the dust and filth still accumulate on the lids that you lay on the shelf, or do the cats smell them over? If so, doesn't that increase your bacterial count?

Earl Hennessey, a farmer in Linn County, Iowa, eliminates this difficulty by saving the solution that he uses for rinsing the cans and milkers just before milking. He puts the solution in a pail and soaks the lids in it while the strainer is on the can.

This job takes only a minute, and it helps to keep him on Gold Star milk, which pays 20 cents premium. When your herd is producing 350,000 pounds of milk a year, this one-minute job pays quite well.—*P. J. K., Iowa.*

Sold on sweet clover silage

DON'T SELL sweet clover short as a crop for feed purposes. That's the advice of Luverne Bauer, Rice County, Minnesota, who is another member of the rapidly growing grass silage club.

There's this difference about his silage, however. Instead of being made from alfalfa or a mixture of alfalfa and brome, it's made from sweet clover.

And Bauer really swears by this kind of silage. That's because his cows not only eat the sweet clover silage but appear to relish it. Also, it cost him only about $175 for 17 acres of it—140 tons of very nutritious feed on which his cows thrive.

Bauer milks about 40 head of cows—mostly Holsteins—and reports that he feeds this silage to them after the morning milking. Cows take the rest of the morning to clean up this silage, but it seems to be so filling that they do not appear very interested in the high-quality hay which he places in front of them.

"If I feed those cows a like amount of corn silage," he says, "they always are hungry enough to want a good feed of hay shortly afterward. That convinces me the sweet clover silage has more feed value than corn silage."

Bauer adds about 35 pounds of fluid molasses per ton of silage. He merely backs up an old truck holding the barrel of molasses and parks it close to the blower. The molasses is allowed to run out of the barrel and trickle into the chopped clover as it is being blown into the silo.

Bauer estimates this sweet clover silage cost him around $4 per ton. He figures that $1 of this sum was for liquid molasses, $1.50 was for hay, and $1.50 for the labor involved in putting it up in the silo.—*H. S., Minnesota.*

By slipping rubber inflation over neck of old wine bottle, Earl Knutson, Waukesha County, Wisconsin, simplifies job of giving medicine to a cow. He inserts tube in corner of mouth, cow starts chewing, and she drinks without gagging or breaking the bottle. —C. P. F., Wisconsin

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FOR MILK PAILS, MILK CANS, CREAM SEPARATORS, MILKING MACHINES!

No other type suds can equal GREAT new DREFT

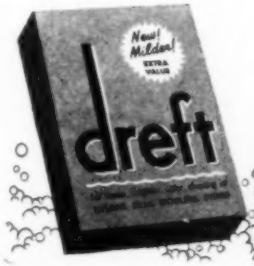
now! GOES 40% FURTHER

Without hard scrubbing . . . *new* Dreft quickly dissolves and rinses away milk slime and grease. Dissolves milkstone and prevents more from forming. It washes all your milk containers and equipment *shining clean* in *less* time . . . with *less* work!

And *new* Dreft cuts bacteria counts to an amazing low—helps prevent loss of butterfat due to milkstone—adds dollars to your dairy income!

Even in hardest well water, new Dreft makes thicker, richer suds . . . gets dishes so clean they *shine* . . . even without wiping! New Dreft is truly beauty-mild . . . now actually one of the *mildest suds* in the world. Leaves your hands *softer—smoother—prettier*. Try it!

now! BEAUTY MILD on your hands



EVERY FARM NEEDS GREAT new DREFT

GET SOME TODAY!

"Thought my back would break—till I used ABSORBINE JR."

says **WILBUR F. BOECK**, *Manager*
Rock Gate Farm
Bedford, New York

● "I'll never forget the day last winter I had to take a turn loading milk cans. Those 125-lb. cans seemed to weigh a ton. My back and arm muscles felt like they were tied in knots. Lucky for me my wife always keeps Absorbine Jr. handy, and at dinnertime I rubbed it on those sore spots. Talk about fast *relief!* It eased the pain so fast that I was downright surprised!"

Take a tip from Dairyman Boeck and get relief with Absorbine Jr. (1) It promptly cools and soothes sore muscles. (2) It counters the irritation that causes the pain with a grand muscle-relaxing effect that helps make you feel good all over.

Get Absorbine Jr. wherever drugs are sold . . . $1.25 a bottle . . . Introductory Size 15c.

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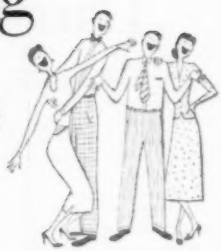
ABSORBINE JR.

Laughing at Life



The Professor Again

"Hello," said the absent-minded professor. "How's your wife?"

"Oh," replied the man, "I'm not married yet, you know."

"To be sure," nodded the professor. "Then your wife is still single, too."

Tallest Tale of the Year?

Andrew, a Minnesota farmer, wasn't having much luck hunting deer, so he scrambled atop a 7-foot hollow tree trunk to have a look around. As he reached the top, gun in hand, he saw a bear step out of the brush, and he fired.

The force of the shot unbalanced Andrew and, losing his gun, he fell inside the trunk. He was stuck and for six hours stood in the trunk yelling for help.

Suddenly, he heard a noise overhead. He looked up and gasped as he saw a huge bear backing into the trunk. Andrew reached up and stabbed the bear with his hunting knife. As the surprised animal yelped and shot out of the trunk, Andrew grabbed a paw and took a free, fast ride to freedom.

The bear ran off into the woods, and Andrew picked up his gun and went home.—*Dick Cupp, a candidate for the Liars' Club.*

What to Do?

Johnny had been commissioned to mind his baby brother. Presently, loud cries from the garden reached his mother's ears.

"What in the world is the matter?" she called from the kitchen window. "Can't you keep your little brother entertained for a few minutes?"

"I'm trying to figure out what to do," replied Johnny. "He's dug a hole in the ground, and now he wants to bring it into the house with him."

The Error of Our Ways

(Culls From the News Columns)

Working Their Way

The young couple left immediately after the reception for a weeding trip.—*Portland (Oregon) Oregonian.*

Got a Warm Welcome?

Fresh pork and country sausage drove to Hendricks Sunday and were guests of Fred L.—*South Dakota paper.*

Tight Going

When Mrs. M—— gave the signal, her husband and father burst into the office through a keyhole.—*The Pittsburgh (Pennsylvania) Sun Telegraph.*

Two $20 Bills, Please—Charge 'Em!

Stamps and money will be sold there, and it will be possible to get letters registered.—*The Erie (Pennsylvania) Times.*

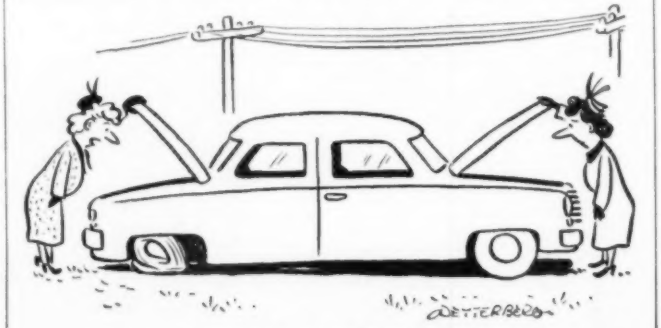
Brooms Also Furnished?

Smith is an authorized agent for Longines and Wittnauer Witches.—*Findlay (Ohio) paper.*

Two Horns With This Buy

For Sale: 1927 Model Jersey Cow. Excellent mechanical condition, only run a few miles.—*Fort Collins (Colorado) Express-Courier.*

—SUCCESSFUL FARMING—



"It sounded more like *this* end, Emily."

MAKE A FIST IN THEM

Feel THE AMAZING SOFTNESS AND COMFORT OF WOLVERINE HORSEHIDE HANDS

Wear Them, See How Tough They Are... How Long They Wear... How They Save You Money On Work Gloves.

VISIT your Wolverine dealer—try on a pair of Wolverine Horsehide Hands—and make a good, tight fist in them. You'll be amazed at their softness and pliability—next thing to bare-hand freedom. Now that's because Wolverine's exclusive, secret triple-tanning process tans tough horsehide that way and still retains all its natural grown-in resistance to wear. So, for the very tops in work glove economy AND comfort—wear *Wolverine Horsehide Hands*. See your Wolverine dealer soon.

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Rockford, Michigan

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HORSEHIDE HANDS

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WOLVERITE PENCIL

Hand the Coupon to your Wolverine dealer and inspect or try on Wolverine Horsehide Hands. He'll see that you get your Wolverite Pencil FREE.

TO ALL WOLVERINE DEALERS:
Bearer is entitled to one Wolverite Mechanical Pencil FREE after presenting this coupon and inspecting or trying on a pair of WOLVERINE HORSEHIDE HANDS.

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Only **ATKINS** makes *"Silver Steel"* SAWS!

For Every Sawing Job on Every Farm

No. 65 Ship Hand Saw
A genuine "Silver Steel"! — Taper ground — Carved apple handle. Best for general carpentry!

● Sawing is easier—results are better with Atkins "Silver Steel" Saws!... The steel used in "Silver Steel" saws equals razor steel—is the finest ever used in saws! That's why Atkins "Silver Steel" saws stay sharp, stay set longer—cut faster and truer. Insist on "Silver Steel" when you want the best quality—the best value!

No. 10 Hacksaw Frame
Cold rolled steel. Adjustable 8 to 12 inches. "Easy-Grip" plastic handle. Uses "Silver Steel" blades.

No. 9 Forester Crosscut
"Silver Steel" and gas tempered for long life! Sharp teeth that hold their edge. Skew back.

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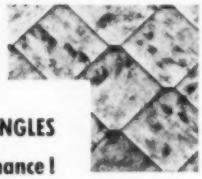
OF ALL FINE SAWS— THE FINEST ARE *"Silver Steel"* SAWS

This attractive barn is roofed with No. 4 Gray Duoface "Century" Asbestos-Cement Shingles.



K&M *"Century"* ASBESTOS-CEMENT SHINGLES

give lasting protection—let you forget maintenance!

K&M "Century" Roofing Shingles resist time, weather, rot, rust, rodents, and fire. You get an attractive, tight-fitting roof for any structure—one you can count on to last a lifetime.

You'll appreciate the savings you make with K&M Shingles, also. They are economical to buy and to apply. They go on easily and quickly on new construction, over old wood shingles, or over composition roofs. And K&M Asbestos-Cement Shingles last so much longer without even needing paint.

A protective surface, an economical surface—and one that's attractive as well! K&M Shingles add to the appearance of any structure. Roofing Shingles are made in a range of eye-pleasing colors—Spanish Red, Surf Green, Newport Gray, Black, and White. K&M Siding Shingles are made in Shell White and Graytone.

Your local K&M dealer will be glad to advise you on using "Century" Asbestos-Cement Shingles for roofing or siding. Consult him without obligation.

K&M last in asbestos

KEASBEY & MATTISON
COMPANY • AMBLER • PENNSYLVANIA

Original manufacturers of Asbestos-Cement Roofing Shingles in this Country

Inbred herd

[*From page 35*]

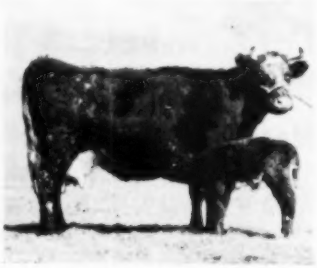
The goal today is a still larger percentage of meat in some of the most expensive cuts—the round, loin, and in the crops. And the herd is well on its way.

Years ago, the Neals showed cattle at local fairs, the Iowa State Fair, and at the International Livestock Exposition. The herd did quite well in show-ring competition, but the Neals quit in 1940.

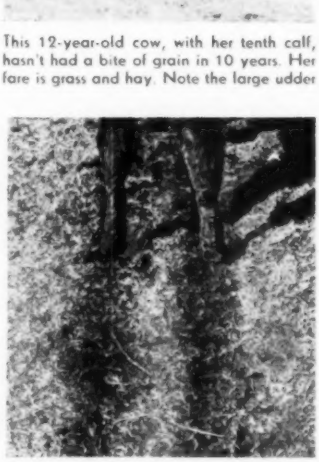
As Burt Neal put it: "I realized that I had come to the fork of the road. One route led to the show ring and popularity; the other route, though less spectacular, led to more efficient cattle and a sounder livestock program. I chose the latter."

A big-time judge today might not lay blue ribbons on the Neal cattle. They're

Granddaughter Sharon makes friends with one of the latest arrivals in the Neal herd. Pampering is unknown, from birth till sold



This 12-year-old cow, with her tenth calf, hasn't had a bite of grain in 10 years. Her fare is grass and hay. Note the large udder



Grass strip in center of path isn't tramped out because the Neals have tried to develop cattle with a leg on each corner of the body

good cattle, and they would lead most of the show-ring winners a merry chase for efficient gains on pasture or in the feedlot. But they aren't compact enough to win the judge's approval, and their legs may be a mite too long for him.

The Neals have found that an animal, to thrive on farm roughage and soil-building crops (of which we'll see more in the future), needs a greater body capacity to handle enough of these feeds to do the job well. They believe that there is a correlation between the size of the body and all its parts, and that, as you develop a larger and faster-growing animal, you automatically lengthen all its bones.

The cows give enough milk to take care of their calves—or out they go. And the Neals have the kind of cows that, when through producing calves, can receive grain for two weeks in the feedlot and then top the market for their class.

Heifer calves get enough grain to grow them out, but not another mouthful after they're bred. From that time on, their ration is pasture and hay, with ensilage in winter, plus salt and mineral. One 12-year-old cow has had no grain in 10 years (see picture, opposite page).

The 3-year rotation provides a shotgun mixture of red clover, sweet clover, alfalfa, alsike, mammoth clover, and timothy. Part of this is grazed, and the rest put up for hay.

This 240-acre farm carries 35 cows, 18 heifer calves, 6 bull calves, 10 steers, and 2 herd sires. The Neals aren't particularly interested in selling breeding stock; they haven't sold a female in seven years. As Burt explained, they don't want to sell anyone their less desirable stuff, and to continue their improvement, they can't afford to part with the better animals.

The Neals select several bull calves every year and castrate the rest of the male calves. The chosen few are raised to serviceable age and then bred to a few heifers. The conformation and gains of the calves decide whether any young bull—and his offspring—stays with the herd or goes for beef. Performance, not looks alone, must decide.

Once a bull has proved himself, he is kept until 12 or 14 years of age. The present herd sire is 8 years old. But he can't rest on his laurels, for there's a junior bull ready to take over his job—not to mention several aspiring bull calves.

Like the males, heifer calves also are given a chance to prove themselves through performance, rather than by looks alone. They are bred twice before discarding as a poor bet. Cows are kept as long as they are good calf producers.

In the process of eliminating the undesirables, the Neals feel that, even though all the cattle are registered, they must forget about pedigrees. Otherwise, they might be scared out by the closeness in relationship of the bull to some of the cows. Or they might fall into a "system" and forget to consider the quality of the calves produced.

The seven foundation cows at the start of this inbreeding program in 1912 bore no higher than an average of 2 percent relationship to each other. As a result, distinct cow families soon developed. However, only three of the seven families have survived the process of elimination. Culling was based on individual merit, rather than on pedigree or any particular "system" of cattle breeding.

[*Turn to page 136*

How to Avoid a Small-Yield Corn Crop . . .

Caused by Lack of NITROGEN!

Seven farmers out of ten are going to reap disappointment in the size of the corn crop they harvest this fall! Because 70% of the Nation's cornfields lack the Nitrogen needed to produce maximum yields!

But there is no reason why lack of Nitrogen should cause your yield to fall below expectation! For the makers of Spencer Nitrogen fertilizers have prepared a folder that tells you how side-dressing with Spencer Ammonium Nitrate Fertilizer and proper use of mixed fertilizer containing Spensol increases corn yields as much as 50%! And whether you plan to sell or feed your crop you want the low production costs that only a big crop makes possible!

So why waste the hundreds of dollars you've paid for seed, throw away the work of days . . . when a three cent stamp and two minutes spent filling out this coupon can pay such big returns?

Yours for the Asking!

A SPECIAL BOOKLET ABOUT SIDE-DRESSING CORN WITH NITROGEN, RICHLY ILLUSTRATED IN FULL COLOR.

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Please mail, free of charge, your color-illustrated booklet that gives all the facts about how to get bigger corn yields from side-dressing with Spencer Nitrogen Fertilizers.

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For friendly help with your building, furnishing or decorating problems, visit the store nearest you offering **Successful Farming's** home planning service. Stores are listed on page 120.

Now THE NEW WHITE CHIEF **10 FEET** *long!*

Yes, here it is—that extra length you've always wanted. .120 inches of accurate, more useful measuring ease. Jet black markings on a wear-resistant, acid-resistant snow white blade.

Carlson quality throughout with famous 10-second blade change economy and the new convenient *swing-tip*...a real value at YOUR HARDWARE DEALER.

Just be sure it's the *White Chief* by Carlson.

P.S. And don't forget to get an extra blade to keep on hand as a "spare."

Blade patented under Pat. No. [illegible]

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For Fun Fur or Feathers

SAVAGE MODEL 24
The Famous over and under Gun
.22 RIFLE-.410 SHOTGUN COMBINATION

First in the Field

SAVAGE
SAVAGE · STEVENS · FOX Rifles and Shotguns
SAVAGE · WORCESTER Power and Hand Lawn Mowers

Here's *one* gun that's ideal for fun, fur or feathers. Use the accurate "22" rifle barrel for plinking, informal target shooting and small game. Then, with the flick of a thumb, the dependable "410" barrel (3" or 2½" shells) is ready for flying game, pests or targets.

The Savage Model 24 is as compact, lightweight, streamlined and good looking as it is practical and low priced. See this gun at your dealer's and you'll want it—own it and you wouldn't be without it. Write for catalog of the complete line of Savage-built rifles and shotguns.

SAVAGE ARMS CORPORATION
Firearms Division, Chicopee Falls, Mass.

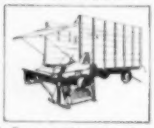
A lightweight, rugged "double purpose" gun. Upper barrel shoots .22 long rifle, long or short cartridges; lower barrel .410 shotshells. Single trigger. Button barrel selector permits instant use of either barrel. Redesigned stock and forearm—now a wood stock of selected American walnut.

GEHL *the most wanted*
Forage Harvesters

The Gehl has *more years of proved performance* back of it than most forage harvesters. Thousands of users agree that the Gehl leads in better cutting, all-'round performance and *value per dollar*. Built to stand up year after year. Like the long-famous Gehl feed cutters and silo fillers, the Gehl Forage Harvester *cuts uniformly clean and fast* . . . no shredding. Does an equally fine job in windrowed hay, corn or other row crops. Sickle bar attachment also available. *Saves many man-hours and back-breaking work!*

GEHL EQUIPMENT DOES THE COMPLETE FORAGE JOB FROM FIELD TO STORAGE

Gehl Blower elevates fodder to highest silo or mow. Power take-off from blower, or separate electric drive operates Gehl Self-Unloading Wagon and others. FREE PLANS for making self-unloading wagon, using Gehl parts kit.



Gehl Forage Harvester is built with power take-off from tractor as illustrated, or with own motor.

GEHL BROS. MFG. CO.
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Inbred herd

[*From page 135*]

With the exception of one bull, Roan Champion, brought into the herd in 1915, every mating since 1912 has been with Sultan's Banner or his descendants. And, for all practical purposes, all traces of Roan Champion have been eliminated, as none of his descendants were good enough to use as herd sires.

Bannerview, a son of Sultan's Banner, turned out some calves that seemed to approach the ideal when bred to daughters of Sultan's Banner. A little later, Banner's Last, another son of Sultan's Banner, was selected for breeding to daughters of Sultan's Banner. Not long after that, Sultan's Banner died.

There was nothing unusual about the Neal breeding program until Burt started using the sons of Sultan's Banner on daughters of Sultan's Banner. Then the inbreeding program really began.

The successor to Banner's Last was one of his sons out of Scotch Lady 6th, a daughter of Sultan's Banner. He was named Banner. Still later, one of Banner's sons, Victor's Banner, succeeded his father as head of the herd.

And thus, the process of inbreeding was pursued down through the years to the present time. Today's herd sire is Bannerview Seal, a sixth great-grandson of the foundation bull, Sultan's Banner.

The herd started out on a one-sire basis with Sultan's Banner.* Then the program broadened into a two-sire breeding program with the two sons, Bannerview and Banner's Last. Several years later, the breeding policy narrowed once again to a one-sire basis, with Banner doing the honors. This setup persisted when his son, Victor's Banner, took over.

Today, the Neal herd is still on a one-sire basis, but Burt and Gordon are edging toward a two-sire policy. A two-year-old bull seems to be a very likely prospect to supplement the senior bull. The one-sire method has been purposely used during recent years in an attempt to uncover any further hidden defects.

Had a one-sire policy been pursued throughout, serious trouble from over-intensive inbreeding might have developed. The rate of inbreeding is about twice as high with a one-sire plan as with two sires. But the alternation between the one-sire and two-sire systems has enabled the Neals to avoid that pitfall.

Furthermore, the longer you inbreed without encountering serious inherent defects, the less likely you are to find them. The chances are most likely that a combination of genes (units of inheritance) would have brought out the defect early in the inbreeding program.

In the Neal breeding program, the merits of the ancestral bull, Sultan's Banner, have been well conserved. According to Dr. Jay L. Lush, animal geneticist at Iowa State College, the present herd carries 47 to 50 percent relationship to Sultan's Banner, and the present intensity or coefficient of inbreeding is somewhere near 34 percent, compared with 16.9 percent back in 1932. The cows in today's herd are, on the average, more alike genetically than usually is the case with full sisters.

The Neals say that their inbreeding policy is no way to get rich, but they have made a good living. END

Veterinary

Acne in dogs

ACNE is an inflammation of the hair follicle caused by a germ known as staphylococci (stafflococus). Acne starts as a small crop of raised areas which rapidly swell, become pustules, and rupture. The infected painful areas may become underrun with spongy tracts.

Treatment consists of penicillin and sulfa in the system, along with vaccine. Local applications consist of iodine, zinc lotion, calamine lotion, sulfa creams, mercury ointment, and ultraviolet light.

Maybe it's Bang's disease

THE OTHER DAY we visited a farm where the owner was having considerable trouble getting his sows "settled." He was blaming the boar as a nonbreeder, but blood testing showed the failure was due to Bang's disease.

Reports from all over the country indicate that this is a common occurrence, and a great many breeding troubles in swine nowadays are due to such infection. Accordingly, think of Bang's disease if your sows aren't settling as they should.

Be careful with that syringe!

RECENTLY WE saw a bunch of sick calves that the owner had vaccinated against shipping fever. In fact, they were sick because of the vaccination.

Dosage was correct, for each animal had been given 25 c.c. of serum. However, the label on the bottle said that the "serum" was bacterin, with a recommended dose of 5 c.c., so each animal had received five times the amount it should have received.

Eventually, the calves all recovered, but the ending might have been much different. Look closely at those bottles before you push that syringe plunger!

Estrogens in young pasture grasses

EVER WONDER why cows increase milk flow when turned to young pastures?

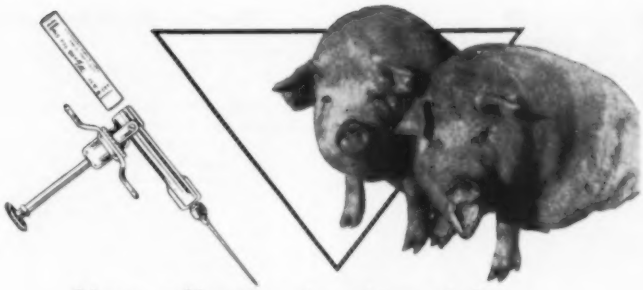
A team of British scientists comes up with the answer that this is due to the presence of estrogens in young pasture grasses. Estrogens are the female sex hormones responsible for appearance of estrus or heat periods. In a less direct way estrogens are related to the function of the milk glands. As an example, unbred heifers have been made to yield a pretty fair flow of milk by repeated injections of the synthetic estrogen called stilbestrol.

"Down under" in Australia, ewes grazing on certain types of subterranean clover got so much estrogen-like substance that they suffered prolapses of the vaginas.

Time to vaccinate again?

WE WERE CALLED in on an outbreak of hog cholera and found the owner kicking himself all over the place for causing his own trouble. According to regular custom, the animals had been immunized against cholera by the use of tissue vaccine. However, the owner had "slipped up" by failing to revaccinate his breeding stock about a year later.

As a result, resistance had decreased to the vanishing point, and the porkers came down with cholera. You'll do well to check up on where you stand in regard to this vaccination business, too. END



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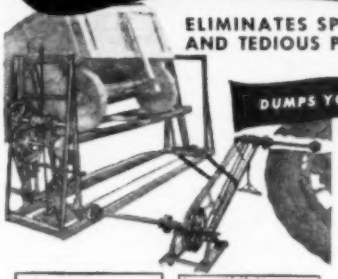
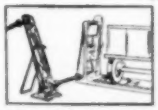
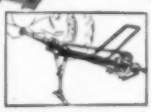


This new Power Take-Off Drive will save you time, work and patience at harvest-time. No speed jack stakes to pull loose or belt to slip off — no maneuvering or positioning of tractor. You pull the loaded wagon into position, flip the Power Take-Off Drive over and in one minute's time it snaps onto the spline shaft of your tractor and you are ready to go. It may be used with platform or overhead wagon jack hoist. See your Farmer's Friend Dealer or write for literature and prices.



Power Take-Off Drive easily flips back out of the way for tractor and wagon to pull in or out.



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They've doubled gains with new drugs

[*From page 45*]

Starting with chicks at two weeks of age, Groschke and Evans divided them into five groups.

One pen got what scientists call a basal ration. This isn't the best ration in the world, but it's one which meets the basic requirements for chick growth in all the known nutrients except Vitamin B_{12}. The second pen of chicks received the basal ration plus Vitamin B_{12}. This resulted in 90-percent faster growth.

The third pen was fed the same ration as the second, but with either aureomycin or streptomycin added. Growth shot up to double the rate of the chicks on the basal ration.

A fourth pen got the same ration as the third, plus five B-vitamins (thiamin, pantothenic acid, pyridoxine, folic acid, biotin). These chicks did 120 percent better (more than double) than the first pen, which received only the basal ration.

A fifth pen demonstrated that aureomycin or streptomycin alone can't double gains with chicks. For, when either aureomycin or streptomycin was added, and nothing more, the chicks gained only 30 to 40 percent more rapidly than those on the basal ration. It took a combination of Vitamin B_{12}, synthetic vitamins, and an antibiotic with the basal ration to get top results.

Tried three antibiotics. Out at the Washington Experiment Station, Dr. James McGinnis in a series of trials tested three antibiotics—aureomycin, streptomycin, and terramycin—in turkey poult and baby chick rations. Turkeys so far have shown the greater response, doing 15 to 30 percent better than other turkeys getting only the basal ration.

The chicks getting an antibiotic did not make as great a showing, running between 5 and 20 percent ahead of those fed only the basal ration. The basal ration was about as adequate nutritionally as McGinnis knew how to make it.

What those Washington trials actually indicate is that the turkeys and chicks use their feed more efficiently when it contains an antibiotic. And that means bigger gains for the amount of feed eaten.

Dr. W. W. Cravens at the Wisconsin Experiment Station noted a "quite significant" difference in growth rate when feeding the basal ration with and without streptomycin. Feeding chicks from one day to four weeks of age, Cravens found that at the end of four weeks the streptomycin chicks averaged 30 to 40 grams more in weight than the ones on basal. That's something like 10 percent heavier. It should be added that the basal was a pretty good ration in itself, containing all-plant proteins, Vitamin B_{12}, plus essential vitamins and minerals.

More about hogs. Returning to the hog experiments, Doctors R. W. Luecke, W. N. McMillen, and Frank Thorp, Jr., of the Michigan Agricultural Experiment Station found that when 26-pound pigs had been on experiment for six weeks, those getting the basal ration made an average daily gain of 0.88 pound. Another lot getting B_{12} (in addition to the B-vitamins already in the basal ration) gained 0.98 pound per day. Those pigs receiving the B-vitamins plus 0.5 percent of an APF supplement gained 1.43 pounds—almost twice the average gain for pigs of this size. But the most striking thing is that pigs getting the B_{12} plus 0.5 percent streptomycin averaged 1.49 pounds daily. About 3 pounds of feed were required per pound of gain in each of the lots.

Paired pig test. An interesting twist has been added by Dr. Connor Johnson of the Illinois Agricultural Experiment Station. He decided to determine feed efficiency by giving each hog the same amount of feed, regardless of the diet used. Then, by comparing pig weights, he could see exactly how one ration stacked up against the others from the standpoint of gains produced.

This experiment was run on a paired-pig basis; that is, one pig of the pair was fed one ration, and the other pig received a different one. Both pigs of each pair were fed the same amount of feed, and their weights were compared at the end of the test.

Starting when the pigs were 2 days old and running until they were 6 weeks of age, the pigs all received a basal diet of synthetic milk.

Pigs that survived on this basal diet, and nothing more, weighed an average of 7 pounds at 6 weeks, while those receiving the basal along with crystalline Vitamin B_{12} weighed 36.4 pounds at 6 weeks. But pigs which had basal ration plus crystalline B_{12} plus streptomycin reached the unbelievable weight of 41.4 pounds at 6 weeks!

Restated in terms of gain per pound of feed eaten, those getting basal plus B_{12} gained 0.71 pound; while pigs on basal plus B_{12} plus streptomycin gained 0.80 pound for every pound of feed. Most of basal diet pigs died before 8 weeks.

Smaller pig had no aureomycin, but larger one had ration in which it was included

Similar indications with pigs and chicks have been noted recently at such experiment stations as Connecticut, Iowa, and Missouri and at the U.S.D.A. research farm. Dr. T. H. Jukes and E. L. R. Stokstad of Lederle Laboratories, Pearl River, New York, report that aureomycin produces an increase in growth when added to diets containing animal protein as well as those having all-plant proteins.

What causes all this? These antibiotics go above and beyond any feeding results produced by the feeding of APF. Why?

The beneficial action of antibiotics is

probably several-fold. In the first place, the antibiotic seems to destroy the less desirable bacteria in the intestines of pigs and chicks. This removes something which otherwise would be competing with the animal for nutrients and possibly excreting toxic substances which might be absorbed through the gut wall, with an ill effect on the animal.

Hard to prove, all of this. But, at the Michigan station, extensive bacteriological tests show that the antibiotics, when taken into the intestine of either pigs or chickens, have knocked out almost 100 percent of the less desirable coliform bacteria.

And, while destroying or holding in check less desirable bacteria, antibiotics may actually be encouraging the growth of beneficial bacteria. This fortunate selectiveness of antibiotics is a theory held by several of these nutrition experts.

Will other antibiotics work, too? What about some of the antibiotics besides aureomycin, streptomycin, and terramycin? In this roundup of information, that question was frequently asked.

So far, no one seems to know whether our old friend, penicillin, will do the job credited to the three antibiotics already discussed. Some say they don't think so because the bacteria in the intestinal tract may secrete enzymes which destroy the penicillin. However, one of these research workers believes that penicillin will do quite well and already has a pig experiment under way to prove it.

Then there's an antibiotic called chloromycetin. It's one of the newer ones. This antibiotic already has achieved considerable success in human medicine, and it promises to be of aid in plant disease control. But little or nothing seems to be known as to whether it would be helpful to animals from a nutritional standpoint.

Which of the antibiotics is best—aureomycin, streptomycin, or terramycin? From a nutritional standpoint, it's too early to know, but they all seem to rate about the same according to early signs.

While the drugs are costly, it takes only a pinch to do the job. And, if the usual pattern is followed, the price will fall as volume of production increases.

Questions yet to answer. According to Dr. W. N. McMillen, swine nutritionist at Michigan State College, there are several questions to be answered with future research.

Are the B-vitamins and B_{12} necessary along with the antibiotics? Present evidence indicates that they are. Then, which vitamins are important? What will be the long-time effect on reproduction, the carcass, and length of life?

How far will feed combinations containing antibiotics go toward preventing disease?

Will the harmful bacteria in the intestine grow accustomed or resistant to a low level of the antibiotic, just as flies developed resistance to DDT?

The idea of antibiotics in feeding is a new one—so new that a recent announcement caught practically everyone off his guard. This feeding concept will be an interesting one to watch as it unfolds during the next few months. And already there's a wild scramble to find the answers, both in public institutions and in commercial laboratories.

As for when this new discovery can reach the feedlot, it's not a question of months, or even weeks—it's here! END

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Even though good laying-mash formulas and formula feeds are fed, good feeders know that fresh mash whets a layer's appetite. Providing fresh mash each day is just one more of those simple jobs that aids in holding up summer production.

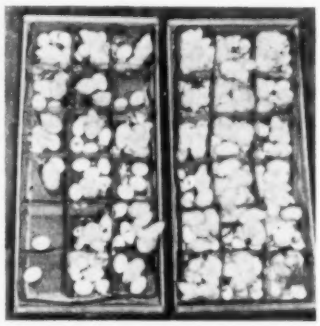
Sell better eggs. Egg buyers, watch quality closely during June. Those first hot days of the season catch many poultry raisers unprepared.

The temperature of an egg when laid is 107 degrees, and the animal heat must be taken out of the egg as soon after it is laid as possible. An egg held at 98.6 degrees will change from Grade A to C in three days. If kept at a temperature below 40 degrees with a high humidity, it will take many days to lose the same amount of freshness.

It is best that eggs be gathered in a common wire egg basket and placed in a cool, moist room. They will cool to a safe temperature in about five hours. Leaving eggs in a wire basket overnight and casing them in the morning is a good practice to follow.

A sandbox is a simple egg-cooling aid. It is built of 2"x8" lumber for the sides and contains about 4 inches of damp sand. The wire baskets full of eggs are placed above the sand. The baskets are supported by 1"x2" boards running across the box about an inch above the top of the sand. In dry basements, hang a burlap curtain around the box.

Guard against disease. If you live in a pox-infected neighborhood, you're taking a chance if you don't vaccinate the pullets. The ideal time is when the pullets are on range, before laying age.



Chicks at left are from hens which got a ration deficient in Vitamin B_{12}. Eight of 15 died. Chicks at right are from hens that got B_{12}. Only 1 chick out of 15 died

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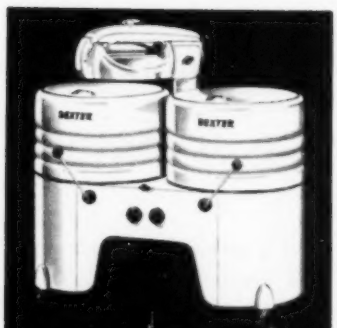

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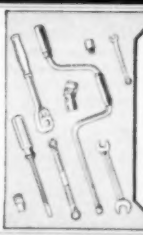

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Borson Laboratories, 951 Willard Ct., Dept. 486, Chicago 22, Ill.

Limber-neck is common from June to October and is an intoxication caused by eating spoiled feed. Eating poisonous, decaying carcasses, or the maggots in them, is the most common cause. Burn all dead carcasses; there's no remedy.

Bluecomb or pullet disease may strike from mid-June until late October. It is a hot-weather disease which may affect chickens from 6 to 8 weeks of age to laying pullets. It may hit an entire lot of birds or just a few. The cause is unknown. Death loss may vary from 1 to 10 percent.

The first symptom of bluecomb is an abrupt decrease in feed eaten, especially scratch grain. Instead of cleaning up the scratch-grain feeding, a portion may be left on the ground. Chickens are inactive; they may make no attempt to move and may be picked up easily.

In advanced stages of bluecomb, the head and feet are cold, the comb and wattles turn blue, and the veins stand out on the inside of the shanks, due to the drying out of skin and flesh because of fever in the early stages of the disease. The crop is usually full and large.

Little can be done for birds in the late stages of the disease, but two treatments have been developed—molasses and potassium chloride.

For a small flock, use 1 quart of molasses to 10 pounds of mash. Feed the amount of wet mash that the birds will clean up in two or three hours, preferably in the morning, every other day for a week.

Potassium chloride may be fed at the rate of one level tablespoonful per gallon of drinking water for one week. It may be fed in galvanized water pans. Should the outbreak be severe, potassium chloride feeding may be continued in the mash at the rate of 1½ percent for a week or 10 days after the water treatment. Flocks going through an acute attack seldom have a second outbreak.

For Newcastle disease, one drop in one nostril of a new vaccine is showing good control results. Developed at the Virginia Polytechnic Institute, this vaccine is a mild strain of live virus which, so far, has given a high degree of immunity. This method, called the intranasal method, is safe for baby chicks and has been used, without serious loss of egg production, for laying birds (see picture below). This vaccine recently was licensed for sale by the U.S.D.A. END

The nose-drop method now is being used to give a mild but effective type of Newcastle vaccine to day-old chicks, or to laying birds without a serious drop in egg production

fresh as spring breezes

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in the familiar yellow can

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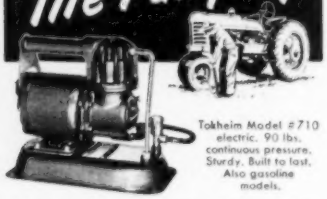

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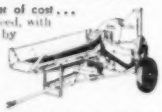

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Why let the heat make your egg pail lighter?

A hen house that gets too hot in summer—and too cold in winter—means fewer eggs in the egg pail. Here's how to make hens comfortable all season

By C. H. Van Vlack

By looking at a hen, it's hard to tell just how many eggs she is going to produce in a year. But by looking, it's not too difficult to see whether she is comfortable or not. If the hen is a bright-eyed, active busybody, it's a good sign that she is going to do something, other than put on weight, with the feed she eats. Comfort for your hens is as important as a balanced ration.

With summer coming on, it's a sure bet that the heat is going to make the egg pail lighter unless you do something about it. You can change your clothes to correspond with the seasons, but your hens aren't as lucky. Come winter or summer, they have to live with their feathers and like it.

There's nothing like the coolness brought about by an insulated hen house for making your layers give with the eggs during hot summer months. Good insulation keeps the hen house warm in winter, too, and will let your hens spend their time on the nest instead of huddling together to keep warm.

The ceiling of the hen house is the most important area to insulate. But do it right. First, nail boards to the underside of the ceiling joists. Then lay vapor-proof paper between the joists. If metal sheets are used in place of boards, no paper is needed. The object of the moisture barrier is to keep the moisture inside the house from getting to the insulation. Wet insulation is worthless and will cause decay of the framing material.

Put the insulating material on top of the paper or metal. Instructions from the manufacturer will tell you how much insulating material you need.

Bright, metal roof coverings will make your hen house cooler in the summer. However, metal roofs are likely to collect frost during very cold weather unless ventilation under the roof is good.

For winter use, you'll need to insulate the walls of the hen house if your hens are to stay comfortable. Tight outer walls are important. They reduce air seepage and heat loss. But it's hard to build a board wall airtight. It's safer to nail windproof and moistureproof paper across the outer edges of the studs before a wall is sided. Then fill the space between outer and inner wall with insulation. (See drawing at right for correct wall construction.)

Insulation is one of the big producers of hen house comfort, but there is another that goes right along with it. Ventilation is almost as important. Old biddy doesn't like cold feet or drafts any better than you do. And she will let you know by fewer eggs in the nest.

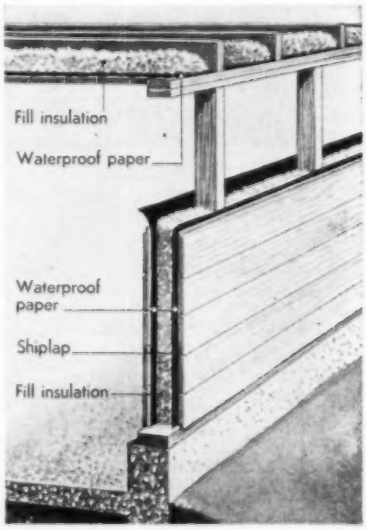
Poorly ventilated quarters collect moisture and are harder to keep free from disease. Tuberculosis, pneumonia, and other respiratory diseases are more likely to attack birds when ventilation is poor.

You don't want ventilation of the feather-blowing variety. That's wind, and your hens don't like it. A slot-type ventilator has a long opening 8" to 10" wide, extending along the south wall of the building just below the ceiling. This slot serves as both an intake and an outlet for air. Baffle boards on the outside regulate the opening. The boards are hinged to the upper edge of the slot and can be adjusted to control the air moving through the house.

During the late spring and summer, tilt-in windows may have to be used for extra ventilation. In the fall, winter, or early spring, the slot ventilators can provide all the ventilation required.

For low-roofed poultry houses, the slot-type ventilator does a good job. Flue-type ventilators are good in poultry

[*Turn to page 145*



Wall and ceiling insulation

Farmer's Trading Center

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Why let the heat make your egg pail lighter?

[From page 142]

buildings high enough to keep air moving up the flue. Here again, a tight building is important. And you'll need to regulate the degree of ventilation according to the weather.

Mechanically operated or fan-type ventilation systems are the most positive. These systems usually are installed by a commercial company and are designed to meet the needs of each individual building. If you want the most successful and positive ventilation system, you should consult a firm making such equipment.

Automatic systems are usually operated by a thermostat and maintain correct temperatures in the laying house under all weather conditions.

Some poultrymen have reported successful ventilation of poultry houses through the use of very simple, homemade systems. A 14" to 16" exhaust ventilating fan can be installed on the south side of the building near the ceiling. Four openings near the ceiling of the other walls—two on the north, one on the east, one on the west—are used to bring in fresh air.

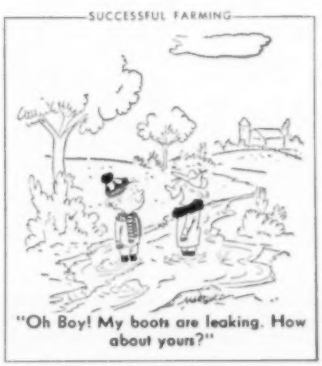
This setup gives just the right air change for still, hot summer nights. The same setup can be adapted to winter conditions by the use of an extended vertical duct at the exhaust fan which sucks foul air off the floor.

Some observations have shown that the thermostatically controlled fan motor uses about 20 kwh of electricity per week during the winter. The kwh consumption is much less during the spring, summer, and fall when much of the ventilation is by natural air movement through open windows.

After you've made your cluckers comfortable, you've got to give them the raw materials with which to produce eggs. Even though water is the cheapest nutrient, it is often the most neglected. Not enough or an irregular supply of water quickly lowers production. And it's easy to see why, when you recall that 60 to 70 percent of an egg is water.

Poultry requires twice as much water per unit of body weight as other livestock. As chickens do not have the capacity to take much at one time, drinking water must be kept in front of them at all times.

Two water fountains or pail stands providing 4 feet of water trough or 8 linear feet of drinking space should be provided for every 100 birds. The water the hens drink usually determines the amount of feed they will eat. You'll need about 10 gallons of water per 100 hens per day in hot weather.



"Oh Boy! My boots are leaking. How about yours?"

Roosts are important for your hens. Without a good night's rest, old biddy isn't going to feel much like laying eggs. Locate roosts away from air intakes and outlets. In houses wider than 20', the roosts can be located 2' or more away from the north wall. In houses 20' wide, make roosts 5' long and space them 14" apart with the roost sections extending the entire length of the house. For 24'-width houses, make the roosts 6' to 7' long. Use 2"x2" material for roosts, with the upper corners rounded.

The roost-with-droppings-pit arrangement is the most convenient for laying hens because cleaning can be done less frequently. Twice-a-year cleaning of the pit is enough if the insulation and ventilation keep the manure dry. There is no loss of floor space in using the droppings pit, as the birds like to use the low roosts during the daytime.

Now that you have given your layers the best in housing, don't forget to give them a good place to lay their eggs. Entrance to nests can be either from front or rear, depending upon whether light or dark nests are desired. Individual nests should be 12" to 14" wide, 14" to 16" long, and about 14" high. Wire partitions between nests and a wire floor for the passageway of dark nests provide greater coolness in hot weather.

Whether it's summer or winter, hens like to be comfortable. They will lay better and be less susceptible to disease. It's comfort that puts the cackle in the hen and the eggs in the nest. END

All around the farm

A page written by our readers

In the absence of a whetstone for sharpening knives and other tools, I place a small amount of valve-grinding compound on a hard surface such as hardwood or iron. I use this as a whetstone and get a keen edge.—*F. G., South Dakota.*

When we whitewash our barn, I remove all light bulbs and replace them with blown-out fuses which I keep for this purpose. This saves me the trouble of washing the regular bulbs and also keeps sockets clean.—*A. S., New York.*

To eliminate some of the work of filling sacks with grain, I made the grain spout of our overhead granary with a foot control. (See illustration.) The braces and ironwork shown are all made of ¼"x1" iron. The spring is fairly long and about ½" in diameter. The foot pedal is hinged to the floor at a point handy for use while holding the sack on the iron ring. When I stand on it, the treadle pulls the slide board with

cut-out opening in the spout. When the treadle is released, the spring draws the slide back so that the cutout in the slide board is outside of the chute, and grain flow is cut off. By this control I can use both hands for holding the sack, and thus prevent spilling some of the grain.—*D. L. B., Ohio.*

I use an ordinary strap hinge to make an effective holder for pitchforks. One wing of the hinge is secured to the wall, and in the other wing I drill a hole to receive the pitchfork handle. The handle is pushed into the hole from beneath, and when released, weight of the pitchfork automatically holds the fork against the wall. I cut off the end of the hinge as shown, and smooth the hole with a rat-tail file so the fork handle won't be scratched.—*D. E. B., Missouri.*

When replacing handles in axes, hammers, and other tools, I have found that wedge-shaped horseshoe nails make excellent, inexpensive wedges. I use as many as necessary to tighten the handle.—*S. L., Indiana.*

An old auto wheel or rim and a ½" iron rod about 6' long, bent as shown in the drawing, combine to make an attractive roadside sign standard for advertising farm products. The rod is threaded at one end for a nut. Place a nut on each side of the valve stem hole to hold the rod in place. Then enamel the device to give it a pleasing appearance. The signboards are equipped with hooks on the top edge. The two hooks fit into eyes set in the lower edge. Two

twisted metal rings at the top of the standard are provided for hanging the top signboard.—*R. S. W., New York.*

To clean my hands after they have become greasy from working on a tractor or other machine, I use a little clean motor oil rather than kerosene or gasoline. A small amount of motor oil rubbed over the hands softens the grease, and a clean cloth will then wipe off the dirt surprisingly well. By using the lubricating oil, I have gotten away from chapped and sore hands.—*L. P. T., Illinois.*

In order that I may have a variety of nails with me for repair jobs, I nailed four empty one-pound coffee tins to a board about 4"x9", as shown in

drawing. A strap, or short length of hose, forms the handle. The handle is nailed to the ends of this board. The board is secured edgewise between the pairs of cans.—*M. L., Iowa.*

After birds or cutworms cut many of my young pepper plants off at the ground level, I removed the bottoms as well as the tops from enough small-size tin cans so that I could place a cylinder around each plant. There has been no more trouble from cutworms or birds. The cans do not need to be removed, as the plants grow right up through them.—*Mrs. G. A. W., Ohio.*

Successful Farming **will pay $5 for each item upon publication. You are invited to send us your ideas. We consider each one carefully, but regret we cannot return those not published.—*The Editors***

AMERICAN-Standard

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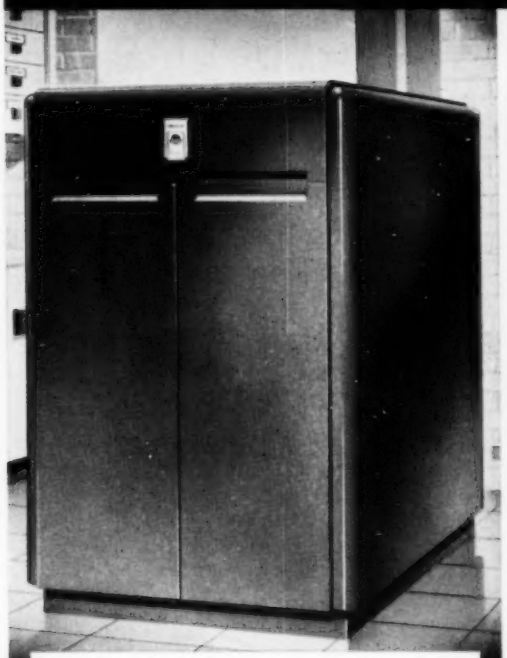

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TELEPHONE OPERATOR MRS. ETHEL JAMES

"THROAT IRRITATION DOESN'T GO IN MY JOB—I SMOKE ONLY CAMELS. THEY'RE RIGHT FOR MY THROAT— THEY'RE COOL AND MILD!"

COSMETIC DEMONSTRATOR MADELINE OSTROWE

"I TALK TO THOUSANDS OF SHOPPERS. WHEN I SMOKE I HAVE TO THINK OF MY THROAT. THAT'S WHY CAMEL IS MY CIGARETTE. CAMELS ARE SO MILD!"

MUSEUM GUIDE WALTER McGRATH

"30-DAY MILDNESS TEST? I'VE SMOKED CAMELS FOR 17 YEARS AND I KNOW THEY AGREE WITH MY THROAT! THEY'RE A GREAT-TASTING CIGARETTE, TOO!"

RADIO ANNOUNCER GEORGE ANSBRO

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